



Preanalytics Catalogue



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Welcome to Greiner Bio-One Preanalytics

Your partner for innovative preanalytical specimen collection systems and safety solutions

There are more than seven billion people on the earth today. As different as they all may be, they share one desire; the desire for a long, healthy and safe life.

We know that we can make a significant contribution towards safety and health in the area of medicine. We use our ideas and our competence for new product solutions. This is our contribution to increased efficiency and safety in preanalytics, which in turn has a positive effect on the reliability of analysis results.

As technological leader in the field of sample collection using products made out of plastic, Greiner Bio-One provides custom-made solutions conforming to the highest of quality standards. The **VACUETTE®** product line, manufactured by Greiner Bio-One and sold in more than 100 countries throughout the world, is used in hospitals, laboratories, doctors' offices and blood donor centres. We are a global player because medicine knows no bounds.

When dangerous infectious diseases occur due to changing living conditions, they make the headlines and the importance of our work is highlighted; since one of the most fundamental human needs has always been to maintain vitality and joy for life, it has always been our high priority.

Greiner Bio-One
Your Power for Health



VACUETTE® One step ahead

Reasons why you should not be satisfied with other solutions, when you can have the ORIGINAL:



Why is it important to use the best products at the best possible price performance ratio?

- Because your work is an important service to people entrusted to your care.
- Because correct analysis results are the basis for far-reaching decisions.
- Because only fully perfected products can guarantee safety and continuous high quality.
- Because more efficiency lessens your burden with routine procedures.



Provide safety

Due to technical advances in the mid-eighties, Greiner was able to be **the first company in the world** to successfully launch a blood collection system made out of virtually unbreakable PET plastic including a safety cap. Against the background of the worldwide increase in infectious diseases such as HIV and hepatitis, health protection of medical staff has become a theme rapidly increasing in importance. The **VACUETTE®** Blood Collection System is a trendsetter. Many components of the **VACUETTE®** system have often been copied unsuccessfully, never reaching our high standards of quality.



Increase efficiency

Streamlining of procedures on the ward and in the laboratory is a theme that continues to increase in importance. **VACUETTE®** products can help save time for routine activities. Whether with the aid of high capacity instruments for decapping blood collection tubes or pre-barcoded blood collection tubes, Greiner Bio-One is investing in new product solutions that can significantly increase efficiency.



Save costs

Greiner Bio-One is the specialist when it comes to realising customers' individual requirements. There are no long lead times, decisions are made quickly, and delays avoided when it comes to handling the orders. Greiner Bio-One Preanalytics is specialised in the manufacture of user-friendly, safe specimen collection systems. This focus means that the customer can be sure of getting products to the best possible cost-performance ratio.



Provide support

VACUETTE® products are the result of planned research and development in close co-operation with our partners and customers. Greiner Bio-One offers comprehensive additional services all around the product by providing expert support as well as technical support and training when a hospital or laboratory converts to the **VACUETTE®** Blood Collection System. A further specific focus of the company is the continuity of customer care, achieved by employing well-trained experienced sales representatives. Well-prepared support and education materials make the daily work with **VACUETTE®** products simple and safe.



Superior competence

Innovation is the basis of all progress. The company history of Greiner Bio-One Preanalytics began with a groundbreaking innovation and this is still the central element of all company activities. In order to guarantee that the level of quality remains constantly high, products must be technically perfect and subject to continual improvements. Expertise in production technology makes it possible to manufacture special thick-walled evacuated tubes, distinguished by increased shelf life.

The VACUETTE® System

Functionality for simple handling

The main advantage of a user-friendly evacuated specimen collection system with pre-measured vacuum is that a clearly defined quantity of blood, urine or saliva can be collected without further handling requirements.

VACUETTE® tubes can be changed quickly and hygienically, without any risk of coming into contact with specimen material. By using **VACUETTE®** Safety Products, a needlestick injury can be effectively prevented. All system components are ideally suited to one another.



Selected components of the **VACUETTE®** system:

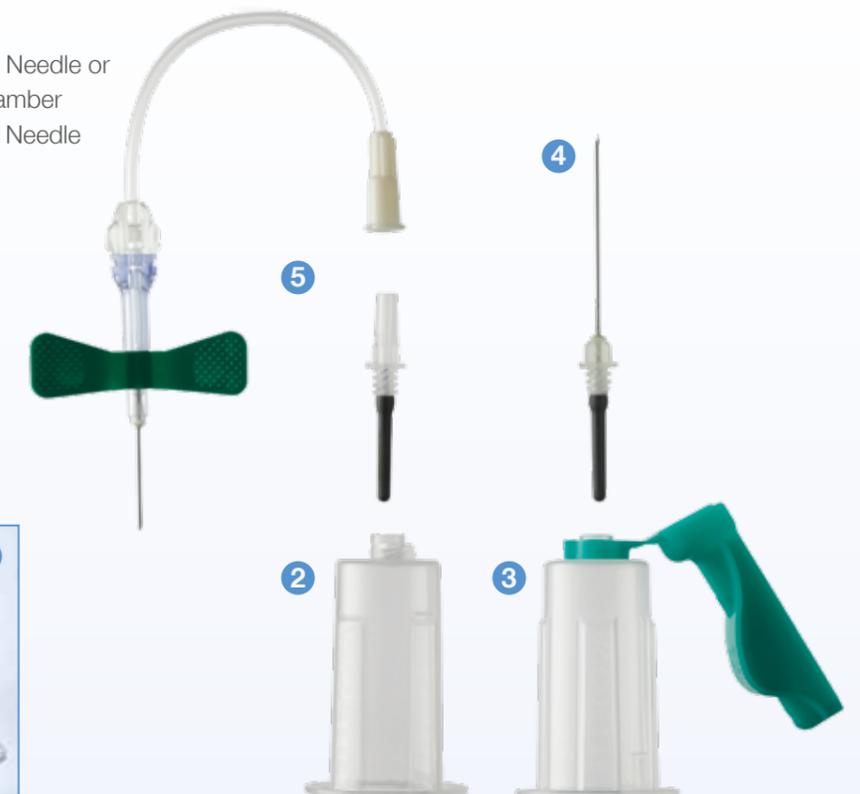
- 1 Sterile **VACUETTE®** Tube made from PET

Choose from:

- 2 Tube Holder
(various versions available)
- 3 **VACUETTE®** QUICKSHIELD Safety Tube Holder
- 4 **VACUETTE®** Multiple Use Drawing Needle or VISIO PLUS Needle with flash chamber or Luer Adapter with Hypodermic Needle
- 5 Luer Adapter with SAFETY Blood Collection Set
- 6 **VACUETTE®** Safety Products

In addition:

- 7 Disposable Tourniquet
- 8 Sharps disposal container





The VACUETTE® Product Range

The comprehensive product range consists of evacuated blood collection tubes for blood, saliva and urine collection, accessories, safety products for prevention of needlestick injuries, both manual and automated ESR systems (erythrocyte sedimentation rate), sharps disposal containers, transport containers and automatic instruments for decapping tubes.

The individual tubes contain additives for the stabilisation of samples. The caps of the tubes are coloured in accordance with the international recommended colour code, so that different tube types can be recognised at first glance. The different coloured rings on the top of the cap provide additional optical recognition.

Colour and meaning of the stabilisation ring

| | | |
|-------------------------------------------------------------------------------------|--------------------------|-------------|
|  | Standard Tube | Black Ring |
|  | Tube with separation gel | Yellow Ring |
|  | Low Draw Volume Tube | White Ring |

More safety and efficiency with VACUETTE® closure systems

All tubes with 13mm diameter are available in two versions: with the PREMIUM Safety Twist Caps or with Non-Ridged pull caps. The **VACUETTE®** PREMIUM Tube with Safety Twist Cap is especially suited for manual opening, whilst the **VACUETTE®** Non-Ridged tubes with pull cap have been especially developed for use on automatic decapping instruments.

All tubes with 16mm diameter are only available with pull caps.



PREMIUM Tubes with Safety Twist Cap

Due to the optimal coordination between Safety Twist Cap and thread, the **VACUETTE®** PREMIUM tube can be opened with a simple twist movement, requiring minimal effort. The secure grip on the tube prevents the cap from becoming unfastened by itself. This is a particular advantage during transport.



Non-Ridged Tubes with pull cap

Without threads, the tubes are especially suitable for automatic decapping by a quick pull movement.

VACUETTE®

Blood Collection Tubes

The innovative **VACUETTE®** Blood Collection Tubes made out of virtually unbreakable PET plastic have set the standard on today's market. They provide improved safety and hygiene during specimen collection procedures with the advantage of being as clear as glass.

Most **VACUETTE®** Blood Collection Tubes contain chemical additives, which in combination with the pre-determined vacuum guarantee the correct mixing ratio for the blood sample. Reliable results and simple application make **VACUETTE®** the primary vessel for all current analysis instruments. All the tubes have the CE-mark and most are US FDA cleared.



| | |
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Coagulation sodium citrate / CTAD

Coagulation and CTAD tubes are used for examination of coagulation parameters. Coagulation tubes contain a buffered sodium citrate solution. It is available with a citrate concentration of 0.109 mol/l (3.2%) or 0.129 mol/l (3.8%). The mixing ratio is: 1 part citrate solution to 9 parts blood. In addition to buffered sodium citrate, CTAD tubes contain theophylline, adenosine and dipyridamole.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|-------------------------------------------------------------------------|-----------|------------|-------------|-----------|-------------------------------------------------------------------------------------------------------------|
| 9NC Coagulation sodium citrate 3.2% - PREMIUM (Safety Twist Cap) | | | | | |
| 454320 | 1ml | light blue | white | 13 x 75 | Sodium citrate 3.2%, sandwich tube, low draw volume |
| 454321 | 2ml | light blue | white | 13 x 75 | Sodium citrate 3.2%, sandwich tube, low draw volume |
| 474321 | 2ml | light blue | white | 13 x 75 | Sodium citrate 3.2%, sandwich tube, low draw volume, transparent label |
| 454325 | 3ml | light blue | black | 13 x 75 | Sodium citrate 3.2%, sandwich tube |
| 454327 | 3.5ml | light blue | black | 13 x 75 | Sodium citrate 3.2%, sandwich tube |
| 474327 | 3.5ml | light blue | black | 13 x 75 | Sodium citrate 3.2%, sandwich tube, transparent label |
| 9NC Coagulation sodium citrate 3.2% - Non-ridged (pull cap) | | | | | |
| 454322 | 2ml | light blue | white | 13 x 75 | Sodium citrate 3.2%, sandwich tube, low draw volume |
| 454360 | 2ml | light blue | white | 13 x 75 | Sodium citrate 3.2%, sandwich tube, low draw volume, transparent label |
| 454334 | 3ml | light blue | black | 13 x 75 | Sodium citrate 3.2%, sandwich tube |
| 454332 | 3.5ml | light blue | black | 13 x 75 | Sodium citrate 3.2%, sandwich tube |
| 9NC Coagulation sodium citrate 3.8% - PREMIUM (Safety Twist Cap) | | | | | |
| 454381 | 2ml | light blue | white | 13 x 75 | Sodium citrate 3.8%, sandwich tube, low draw volume |
| 454385 | 3ml | light blue | black | 13 x 75 | Sodium citrate 3.8%, sandwich tube |
| 454387 | 3.5ml | light blue | black | 13 x 75 | Sodium citrate 3.8%, sandwich tube |
| 9NC Coagulation sodium citrate 3.8% - Non-ridged (pull cap) | | | | | |
| 454382 | 2ml | light blue | white | 13 x 75 | Sodium citrate 3.8%, sandwich tube, low draw volume |
| 454393 | 3ml | light blue | black | 13 x 75 | Sodium citrate 3.8%, sandwich tube |
| 454392 | 3.5ml | light blue | black | 13 x 75 | Sodium citrate 3.8%, sandwich tube |
| CTAD - PREMIUM (Safety Twist Cap) | | | | | |
| 474065 | 2ml | light blue | yellow | 13 x 75 | CTAD, 0.11 M sodium citrate with theophylline, adenosine and dipyridamole, sandwich tube, transparent label |
| 474304 | 3ml | light blue | yellow | 13 x 75 | CTAD, 0.11 M sodium citrate with theophylline, adenosine and dipyridamole, sandwich tube, transparent label |
| 454064 | 3.5ml | light blue | yellow | 13 x 75 | CTAD, 0.11 M sodium citrate with theophylline, adenosine and dipyridamole, sandwich tube |
| 474064 | 3.5ml | light blue | yellow | 13 x 75 | CTAD, 0.11 M sodium citrate with theophylline, adenosine and dipyridamole, sandwich tube, transparent label |
| CTAD - Non-ridged (pull cap) | | | | | |
| 454462 | 3.5ml | light blue | yellow | 13 x 75 | CTAD, 0.11 M sodium citrate with theophylline, adenosine and dipyridamole, sandwich tube, transparent label |



Serum

The inner wall of the serum tube is specially coated with microscopic silica particles, which activate the coagulation process. Serum separator tubes contain a separation gel in the base of the tube; during centrifugation, this gel forms a stable barrier between the serum and the blood cells.

Tubes are packed 50 pcs per rack and 1200 pcs per carton
Change in 2018: Label Z Serum will be changed to CAT Serum according to ISO 6710 (2017)

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|----------------------------------------------------------------|-----------|------------|-------------|-----------|-----------------------------------------------|
| Z Serum Clot Activator - PREMIUM (Safety Twist Cap) | | | | | |
| 454098 | 1ml | red | white | 13 x 75 | Z Serum Clot Activator, low draw volume |
| 454096 | 2ml | red | white | 13 x 75 | Z Serum Clot Activator, low draw volume |
| 454095 | 3ml | red | black | 13 x 75 | Z Serum Clot Activator |
| 454092 | 4ml | red | black | 13 x 75 | Z Serum Clot Activator |
| 474092 | 4ml | red | black | 13 x 75 | Z Serum Clot Activator, transparent label |
| 454027 | 4.5ml | red | black | 13 x 75 | Z Serum Clot Activator |
| 474027 | 4.5ml | red | black | 13 x 75 | Z Serum Clot Activator, transparent label |
| 456092 | 6ml | red | black | 13 x 100 | Z Serum Clot Activator |
| 476092 | 6ml | red | black | 13 x 100 | Z Serum Clot Activator, transparent label |
| Z Serum Clot Activator - Non-ridged (pull cap) | | | | | |
| 454236 | 2ml | red | white | 13 x 75 | Z Serum Clot Activator, low draw volume |
| 454433 | 4ml | red | black | 13 x 75 | Z Serum Clot Activator, transparent label |
| 454204 | 4ml | red | black | 13 x 75 | Z Serum Clot Activator |
| 454298 | 4.5ml | red | black | 13 x 75 | Z Serum Clot Activator |
| 456089 | 6ml | red | black | 13 x 100 | Z Serum Clot Activator |
| 456048 | 6ml | red | black | 13 x 100 | Z Serum Clot Activator, transparent label |
| 455092 | 9ml | red | black | 16 x 100 | Z Serum Clot Activator |
| Z Serum Sep Clot Activator - PREMIUM (Safety Twist Cap) | | | | | |
| 454028 | 2.5ml | red | yellow | 13 x 75 | Z Serum Sep Clot Activator, low draw volume |
| 454071 | 3.5ml | red | yellow | 13 x 75 | Z Serum Sep Clot Activator |
| 474071 | 3.5ml | red | yellow | 13 x 75 | Z Serum Sep Clot Activator, transparent label |
| 454214 | 3.5ml | gold | gold | 13 x 75 | Z Serum Sep Clot Activator |
| 474214 | 3.5ml | gold | gold | 13 x 75 | Z Serum Sep Clot Activator, transparent label |
| 456071 | 5ml | red | yellow | 13 x 100 | Z Serum Sep Clot Activator |
| 476071 | 5ml | red | yellow | 13 x 100 | Z Serum Sep Clot Activator, transparent label |
| 456010 | 5ml | gold | gold | 13 x 100 | Z Serum Sep Clot Activator |
| 476010 | 5ml | gold | gold | 13 x 100 | Z Serum Sep Clot Activator, transparent label |

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|-----------------------------------------------------------|-----------|------------|-------------|-----------|-----------------------------------------------|
| Z Serum Sep Clot Activator - Non-ridged (pull cap) | | | | | |
| 454243 | 2.5ml | red | white | 13 x 75 | Z Serum Sep Clot Activator, low draw volume |
| 454225 | 3.5ml | red | yellow | 13 x 75 | Z Serum Sep Clot Activator |
| 454067 | 3.5ml | red | yellow | 13 x 75 | Z Serum Sep Clot Activator |
| 454228 | 3.5ml | gold | gold | 13 x 75 | Z Serum Sep Clot Activator, black label |
| 454078 | 3.5ml | red | yellow | 13 x 75 | Z Serum Sep Clot Activator, transparent label |
| 456073 | 5ml | red | yellow | 13 x 100 | Z Serum Sep Clot Activator |
| 456069 | 5ml | red | yellow | 13 x 100 | Z Serum Sep Clot Activator, transparent label |
| 456018 | 5ml | gold | gold | 13 x 100 | Z Serum Sep Clot Activator, black label |
| 456234 | 5ml | gold | gold | 13 x 100 | Z Serum Sep Clot Activator, transparent label |
| 455099 | 7ml | red | yellow | 16 x 100 | Z Serum Sep Clot Activator, double gel |
| 455071 | 8ml | red | yellow | 16 x 100 | Z Serum Sep Clot Activator |
| 455010 | 9ml | red | yellow | 16 x 100 | Z Serum Sep Clot Activator |
| 455059 | 9ml | red | yellow | 16 x 100 | Z Serum Sep Clot Activator, transparent label |
| 455034 | 9ml | gold | gold | 16 x 100 | Z Serum Sep Clot Activator |



Heparin

The inner wall of the tube is coated with spray-dried lithium, sodium, or ammonium heparin. These additives are anti-coagulants, which activate anti-thrombins, thus blocking the coagulation cascade of the blood specimen. LH Lithium Heparin Tubes are also available with a separator gel.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|--------------------------------------------------------|-----------|------------|-------------|-----------|---------------------------------------|
| LH Lithium Heparin - PREMIUM (Safety Twist Cap) | | | | | |
| 454089 | 2ml | green | white | 13 x 75 | LH Lithium Heparin, low draw volume |
| 454082 | 3ml | green | black | 13 x 75 | LH Lithium Heparin |
| 454084 | 4ml | green | black | 13 x 75 | LH Lithium Heparin |
| 474084 | 4ml | green | black | 13 x 75 | LH Lithium Heparin, transparent label |
| 454049 | 4.5ml | green | black | 13 x 75 | LH Lithium Heparin |
| 456084 | 6ml | green | black | 13 x 100 | LH Lithium Heparin |
| 476084 | 6ml | green | black | 13 x 100 | LH Lithium Heparin, transparent label |
| LH Lithium Heparin - Non-ridged (pull cap) | | | | | |
| 454237 | 2ml | green | white | 13 x 75 | LH Lithium Heparin, low draw volume |
| 454244 | 3ml | green | black | 13 x 75 | LH Lithium Heparin |
| 454029 | 4ml | green | black | 13 x 75 | LH Lithium Heparin |
| 454056 | 4ml | green | black | 13 x 75 | LH Lithium Heparin, transparent label |
| 456088 | 6ml | green | black | 13 x 100 | LH Lithium Heparin |
| 455084 | 9ml | green | black | 16 x 100 | LH Lithium Heparin |

LH Lithium Heparin Sep - PREMIUM (Safety Twist Cap)

| | | | | | |
|--------|-------|-------|--------|----------|-------------------------------------------|
| 454046 | 2.5ml | green | yellow | 13 x 75 | LH Lithium Heparin Sep, low draw volume |
| 454083 | 3.5ml | green | yellow | 13 x 75 | LH Lithium Heparin Sep |
| 474083 | 3.5ml | green | yellow | 13 x 75 | LH Lithium Heparin Sep, transparent label |
| 456083 | 5ml | green | yellow | 13 x 100 | LH Lithium Heparin Sep |
| 476083 | 5ml | green | yellow | 13 x 100 | LH Lithium Heparin Sep, transparent label |

LH Lithium Heparin Sep - Non-ridged (pull cap)

| | | | | | |
|--------|-------|-------|--------|----------|-------------------------------------------|
| 454247 | 3ml | green | yellow | 13 x 75 | LH Lithium Heparin Sep |
| 454008 | 3.5ml | green | yellow | 13 x 75 | LH Lithium Heparin Sep |
| 454285 | 3.5ml | green | yellow | 13 x 75 | LH Lithium Heparin Sep, transparent label |
| 456087 | 5ml | green | yellow | 13 x 100 | LH Lithium Heparin Sep |
| 456216 | 5ml | green | yellow | 13 x 100 | LH Lithium Heparin Sep, transparent label |
| 455083 | 8ml | green | yellow | 16 x 100 | LH Lithium Heparin Sep |

NH Sodium Heparin - PREMIUM (Safety Twist Cap)

| | | | | | |
|--------|-----|-------|-------|----------|-------------------|
| 454051 | 4ml | green | green | 13 x 75 | NH Sodium Heparin |
| 456051 | 6ml | green | green | 13 x 100 | NH Sodium Heparin |

NH Sodium Heparin - Non-ridged (pull cap)

| | | | | | |
|--------|-----|-------|-------|----------|-------------------|
| 454030 | 4ml | green | green | 13 x 75 | NH Sodium Heparin |
| 456028 | 6ml | green | green | 13 x 100 | NH Sodium Heparin |
| 455051 | 9ml | green | green | 16 x 100 | NH Sodium Heparin |

AH Ammonium Heparin - Non-ridged (pull cap)

| | | | | | |
|--------|-----|-------|-----|----------|---------------------|
| 455031 | 9ml | green | red | 16 x 100 | AH Ammonium Heparin |
|--------|-----|-------|-----|----------|---------------------|



K2E K2EDTA Sep

K2EDTA Sep Tubes are for the examination of EDTA plasma for molecular diagnostics and for viral load determinations.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|----------------------------------------------------|-----------|------------|-------------|-----------|-----------------------------------|
| K2E K2EDTA Sep - PREMIUM (Safety Twist Cap) | | | | | |
| 454235 | 3.5ml | lavender | yellow | 13 x 75 | K2E K2EDTA Sep |
| 456011 | 5ml | lavender | yellow | 13 x 100 | K2E K2EDTA Sep |
| 456211 | 5ml | white | yellow | 13 x 100 | K2E K2EDTA Sep |
| K2E K2EDTA Sep - Non-ridged (pull cap) | | | | | |
| 454059 | 3.5ml | lavender | yellow | 13 x 75 | K2E K2EDTA Sep |
| 456058 | 5ml | white | yellow | 13 x 100 | K2E K2EDTA Sep |
| 456282 | 5ml | lavender | yellow | 13 x 100 | K2E K2EDTA Sep |
| 456205 | 5ml | white | yellow | 13 x 100 | K2E K2EDTA Sep, transparent label |
| 455021 | 8ml | white | yellow | 16 x 100 | K2E K2EDTA Sep |
| 455040 | 8ml | lavender | yellow | 16 x 100 | K2E K2EDTA Sep |



EDTA

EDTA tubes are for the examination of whole blood in haematology and are offered as either K2EDTA or K3EDTA tubes. EDTA binds the calcium ions and therefore blocks the coagulation cascade.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|------------------------------------------------|-----------|------------|-------------|-----------|------------------------------------------------|
| K2E K2EDTA - PREMIUM (Safety Twist Cap) | | | | | |
| 454024 | 2ml | lavender | white | 13 x 75 | K2E K2EDTA, low draw volume |
| 454020 | 3ml | lavender | black | 13 x 75 | K2E K2EDTA |
| 454023 | 4ml | lavender | black | 13 x 75 | K2E K2EDTA |
| 456023 | 6ml | lavender | black | 13 x 100 | K2E K2EDTA |
| K2E K2EDTA - Non-ridged (pull cap) | | | | | |
| 454047 | 2ml | lavender | white | 13 x 75 | K2E K2EDTA, low draw volume |
| 454409 | 2ml | lavender | white | 13 x 75 | K2E K2EDTA, low draw volume, transparent label |
| 454246 | 3ml | lavender | black | 13 x 75 | K2E K2EDTA |
| 454411 | 3ml | lavender | black | 13 x 75 | K2E K2EDTA, transparent label |
| 454209 | 4ml | lavender | black | 13 x 75 | K2E K2EDTA |
| 454410 | 4ml | lavender | black | 13 x 75 | K2E K2EDTA, transparent label |
| 456043 | 6ml | lavender | black | 13 x 100 | K2E K2EDTA |
| 456243 | 6ml | lavender | black | 13 x 100 | K2E K2EDTA, transparent label |
| 455045 | 9ml | lavender | black | 16 x 100 | K2E K2EDTA |
| K3E K3EDTA - PREMIUM (Safety Twist Cap) | | | | | |
| 454034 | 1ml | lavender | white | 13 x 75 | K3E K3EDTA, low draw volume |
| 454087 | 2ml | lavender | white | 13 x 75 | K3E K3EDTA, low draw volume |
| 474087 | 2ml | lavender | white | 13 x 75 | K3E K3EDTA, low draw volume, transparent label |
| 454086 | 3ml | lavender | black | 13 x 75 | K3E K3EDTA |
| 474086 | 3ml | lavender | black | 13 x 75 | K3E K3EDTA, transparent label |
| 454036 | 4ml | lavender | black | 13 x 75 | K3E K3EDTA |
| 474036 | 4ml | lavender | black | 13 x 75 | K3E K3EDTA, transparent label |
| 454039 | 4.5ml | lavender | black | 13 x 75 | K3E K3EDTA |
| 456034 | 5ml | lavender | black | 13 x 100 | K3E K3EDTA |
| 456036 | 6ml | lavender | black | 13 x 100 | K3E K3EDTA |
| K3E K3EDTA - Non-ridged (pull cap) | | | | | |
| 454222 | 2ml | lavender | white | 13 x 75 | K3E K3EDTA, low draw volume |
| 454217 | 3ml | lavender | black | 13 x 75 | K3E K3EDTA |
| 454287 | 3ml | lavender | black | 13 x 75 | K3E K3EDTA, transparent label |
| 454021 | 4ml | lavender | black | 13 x 75 | K3E K3EDTA |
| 454425 | 4ml | lavender | black | 13 x 75 | K3E K3EDTA, transparent label |
| 454223 | 4.5ml | lavender | black | 13 x 75 | K3E K3EDTA |
| 456038 | 6ml | lavender | black | 13 x 100 | K3E K3EDTA |
| 456053 | 6ml | lavender | black | 13 x 100 | K3E K3EDTA, transparent label |
| 455036 | 9ml | lavender | black | 16 x 100 | K3E K3EDTA |



No Additive

These tubes do not contain any additives.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|---------------------------------------------------|-----------|------------|-------------|-----------|--------------------------------|
| Z No Additive - PREMIUM (Safety Twist Cap) | | | | | |
| 454088 | 2ml | white | white | 13 x 75 | Z No Additive, low draw volume |
| 454001 | 4ml | white | black | 13 x 75 | Z No Additive |
| 456001 | 6ml | white | black | 13 x 100 | Z No Additive |
| Z No Additive - Non-ridged (pull cap) | | | | | |
| 454241 | 3ml | white | black | 13 x 75 | Z No Additive |
| 454045 | 3.5ml | white | black | 13 x 75 | Z No Additive |
| 456085 | 6ml | white | black | 13 x 100 | Z No Additive |
| 455001 | 9ml | white | black | 16 x 100 | Z No Additive |



Discard Tubes

The **VACUETTE**® Discard Tube is not for analysis. The tube interior contains no additive. When using a (safety) blood collection set to draw a coagulation sample, a discard tube should be taken first. This will prime the line to reduce any dead-space and ensure that the coagulation tube will not be underfilled.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|-----------------------------------------------|-----------|------------|-------------|-----------|----------------|
| Z Discard Tube - Non-ridged (pull cap) | | | | | |
| 456202 | 5ml | black | red | 13 x 100 | Z Discard Tube |
| 456217 | 5ml | white | black | 13 x 100 | Z Discard Tube |



Glucose

These tubes are ideal for glucose determinations. The **VACUETTE®** glucose tubes contain sodium fluoride as stabiliser with a choice of potassium oxalate, K3EDTA or sodium heparin as anticoagulant. The **VACUETTE®** FC Mix tube enables exact measurement of the *in-vivo* blood sugar level, which makes it particularly suitable for the diagnosis of Diabetes mellitus.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|----------------------------------------------------------------------------|-----------|------------|-------------|-----------|---------------------------------------------------------|
| FX Sodium Fluoride / Potassium Oxalate - PREMIUM (Safety Twist Cap) | | | | | |
| 454061 | 2ml | grey | white | 13 x 75 | FX Sodium Fluoride / Potassium Oxalate, low draw volume |
| 454094 | 3ml | grey | black | 13 x 75 | FX Sodium Fluoride / Potassium Oxalate |
| 454062 | 4ml | grey | black | 13 x 75 | FX Sodium Fluoride / Potassium Oxalate |
| 456062 | 6ml | grey | black | 13 x 100 | FX Sodium Fluoride / Potassium Oxalate |
| FX Sodium Fluoride / Potassium Oxalate - Non-ridged (pull cap) | | | | | |
| 454238 | 2ml | grey | white | 13 x 75 | FX Sodium Fluoride / Potassium Oxalate, low draw volume |
| 454297 | 4ml | grey | black | 13 x 75 | FX Sodium Fluoride / Potassium Oxalate |
| 454438 | 4ml | grey | black | 13 x 75 | FX Sodium Fluoride / Potassium Oxalate, transp. label |
| FE Sodium Fluoride / K3EDTA - PREMIUM (Safety Twist Cap) | | | | | |
| 454085 | 2ml | grey | white | 13 x 75 | FE Sodium Fluoride / K3EDTA, low draw volume |
| 454091 | 4ml | grey | black | 13 x 75 | FE Sodium Fluoride / K3EDTA |
| FE Sodium Fluoride / K3EDTA - Non-ridged (pull cap) | | | | | |
| 454221 | 2ml | grey | white | 13 x 75 | FE Sodium Fluoride / K3EDTA, low draw volume |
| 454033 | 4ml | grey | black | 13 x 75 | FE Sodium Fluoride / K3EDTA |
| FH Sodium Fluoride / Sodium Heparin - PREMIUM (Safety Twist Cap) | | | | | |
| 454218 | 2ml | grey | white | 13 x 75 | FH Sodium Fluoride / Sodium Heparin, low draw volume |
| FC Mix - Non-ridged (pull cap) | | | | | |
| 454510 | 2ml | pink | white | 13 x 75 | FC Mix, transparent label |
| 454511 | 2ml | grey | white | 13 x 75 | FC Mix, transparent label |
| 454513 | 3ml | pink | black | 13 x 75 | FC Mix, transparent label |
| 454514 | 3ml | grey | black | 13 x 75 | FC Mix, transparent label |



Blood Grouping

Blood grouping tubes are available in two formulations, ACD-A, ACD-B or with a CPDA solution. Blood grouping tubes are for blood grouping determinations and also for cell preservation.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|-------------------------------------------|-----------|------------|-------------|-----------|-------------|
| ACD-A - PREMIUM (Safety Twist Cap) | | | | | |
| 456055 | 6ml | yellow | black | 13 x 100 | ACD-A |
| ACD-A - Non-ridged (pull cap) | | | | | |
| 455055 | 9ml | yellow | black | 16 x 100 | ACD-A |
| ACD-B - PREMIUM (Safety Twist Cap) | | | | | |
| 456094 | 6ml | yellow | black | 13 x 100 | ACD-B |
| ACD-B - Non-ridged (pull cap) | | | | | |
| 456204 | 6ml | yellow | black | 13 x 100 | ACD-B |
| 455094 | 9ml | yellow | black | 16 x 100 | ACD-B |
| CPDA - PREMIUM (Safety Twist Cap) | | | | | |
| 456056 | 6ml | yellow | black | 13 x 100 | CPDA |
| CPDA - Non-ridged (pull cap) | | | | | |
| 454280 | 4ml | yellow | black | 13 x 75 | CPDA |
| 456057 | 6ml | yellow | black | 13 x 100 | CPDA |
| 455056 | 9ml | yellow | black | 16 x 100 | CPDA |



Trace Elements

Designed to test trace elements.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|----------------------------------------------------------------------|-----------|------------|-------------|-----------|----------------------------------|
| NH Trace Elements Sodium Heparin - PREMIUM (Safety Twist Cap) | | | | | |
| 456080 | 6ml | royal blue | black | 13 x 100 | NH Trace Elements Sodium Heparin |
| NH Trace Elements Sodium Heparin - Non-ridged (pull cap) | | | | | |
| 456275 | 6ml | royal blue | black | 13 x 100 | NH Trace Elements Sodium Heparin |



ESR

The erythrocyte sedimentation rate (ESR) can be used as a nonspecific search technique for inflammatory reactions and observing their development. **VACUETTE®** ESR tubes are used for determination of the ESR.

PET tubes are packed 50 pcs per rack and 1200 pcs per carton
PP tubes are packed 50 pcs per rack and 800 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|----------------------------------------------------------------------|-----------|------------|-------------|-----------|-------------------------------------------|
| 4NC ESR sodium citrate 3.2%, PET - PREMIUM (Safety Twist Cap) | | | | | |
| 454073 | 2ml | black | black | 13 x 75 | 4NC ESR sodium citrate, PET |
| 4NC ESR sodium citrate 3.2%, PP | | | | | |
| 729073 | 1.5ml | black | --- | 9 x 120 | 4NC ESR sodium citrate, PP, closed system |
| 729070 | 2.75ml | black | --- | 9 x 120 | 4NC ESR sodium citrate, PP, closed system |

Information on ESR readers and accessories can be found from page 56 onwards.



Homocysteine

Homocysteine occurs in cell metabolism as an intermediary product during the catabolisation of methionine. A higher concentration of homocysteine in the blood can increase the risk for cardio and cerebrovascular blockages. Determination of the homocysteine concentration in plasma is therefore carried out for primary prevention - and sometimes for secondary prevention - of heart attacks and strokes.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|--------------------------------------------------|-----------|------------|-------------|-----------|--------------------------------------------|
| Homocysteine - PREMIUM (Safety Twist Cap) | | | | | |
| 454421 | 2ml | white | red | 13 x 75 | Homocysteine Detection Tube, sandwich tube |



Crossmatch

Crossmatch Tubes are available in two versions. The Z Crossmatch Serum Clot Activator Tube contains a clotting activator and is suitable for crossmatch tests when serum is required for testing material. The K3E Crossmatch K3EDTA Tube is suitable when the testing material required is blood cells.

Tubes are packed 50 pcs per rack and 1200 pcs per carton
Change in 2018: Label Z Serum will be changed to **CAT** Serum according to ISO 6710 (2017)

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|------------------------------------------------------------------|-----------|------------|-------------|-----------|-----------------------------------|
| Z Crossmatch Serum Clot Activator - Non-ridged (pull cap) | | | | | |
| 456097 | 6ml | pink | black | 13 x 100 | Z Crossmatch Serum Clot Activator |
| 455093 | 9ml | pink | black | 16 x 100 | Z Crossmatch Serum Clot Activator |
| K3E Crossmatch K3EDTA - PREMIUM (Safety Twist Cap) | | | | | |
| 456093 | 6ml | pink | black | 13 x 100 | K3E Crossmatch K3EDTA |
| K3E Crossmatch K3EDTA - Non-ridged (pull cap) | | | | | |
| 456052 | 6ml | pink | black | 13 x 100 | K3E Crossmatch K3EDTA |



Low Draw Volume Tubes

VACUETTE® Low Draw Volume Tubes are a range of tubes with lower draw volumes, which are ideal for thin veins and geriatric patients.

Tubes are packed 50 pcs per rack and 1200 pcs per carton
Change in 2018: Label **Z** Serum will be changed to **CAT** Serum according to ISO 6710 (2017)

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|-------------------------------------------------------------------------------------|-----------|------------|-------------|-----------|--------------------------------------------|
| Low Draw Volume, Z No Additive - PREMIUM (Safety Twist Cap) | | | | | |
| 454088 | 2ml | white | white | 13 x 75 | Z No Additive |
| Low Draw Volume, 9NC Coagulation sodium citrate - PREMIUM (Safety Twist Cap) | | | | | |
| 454320 | 1ml | light blue | white | 13 x 75 | 9NC 3.2%, sandwich tube |
| 454321 | 2ml | light blue | white | 13 x 75 | 9NC 3.2%, sandwich tube |
| 474321 | 2ml | light blue | white | 13 x 75 | 9NC 3.2%, sandwich tube, transparent label |
| 454381 | 2ml | light blue | white | 13 x 75 | 9NC 3.8%, sandwich tube |
| Low Draw Volume, 9NC Coagulation sodium citrate - Non-ridged (pull cap) | | | | | |
| 454322 | 2ml | light blue | white | 13 x 75 | 9NC 3.2%, sandwich tube |
| 454360 | 2ml | light blue | white | 13 x 75 | 9NC 3.2%, sandwich tube, transparent label |
| 454382 | 2ml | light blue | white | 13 x 75 | 9NC 3.8%, sandwich tube |
| Low Draw Volume, Z Serum Clot Activator - PREMIUM (Safety Twist Cap) | | | | | |
| 454098 | 1ml | red | white | 13 x 75 | Z Serum Clot Activator |
| 454096 | 2ml | red | white | 13 x 75 | Z Serum Clot Activator |
| Low Draw Volume, Z Serum Clot Activator - Non-ridged (pull cap) | | | | | |
| 454236 | 2ml | red | white | 13 x 75 | Z Serum Clot Activator |
| Low Draw Volume, LH Lithium Heparin - PREMIUM (Safety Twist Cap) | | | | | |
| 454081 | 1ml | green | white | 13 x 75 | LH Lithium Heparin |
| 454089 | 2ml | green | white | 13 x 75 | LH Lithium Heparin |
| Low Draw Volume, LH Lithium Heparin - Non-ridged (pull cap) | | | | | |
| 454237 | 2ml | green | white | 13 x 75 | LH Lithium Heparin |
| Low Draw Volume, K2E K2EDTA - PREMIUM (Safety Twist Cap) | | | | | |
| 454024 | 2ml | lavender | white | 13 x 75 | K2E K2EDTA |
| Low Draw Volume, K2E K2EDTA - Non-ridged (pull cap) | | | | | |
| 454052 | 1ml | lavender | white | 13 x 75 | K2E K2EDTA |
| 454047 | 2ml | lavender | white | 13 x 75 | K2E K2EDTA |
| 454409 | 2ml | lavender | white | 13 x 75 | K2E K2EDTA, transparent label |
| Low Draw Volume, K3E K3EDTA - PREMIUM (Safety Twist Cap) | | | | | |
| 454034 | 1ml | lavender | white | 13 x 75 | K3E K3EDTA |
| 454087 | 2ml | lavender | white | 13 x 75 | K3E K3EDTA |
| 474087 | 2ml | lavender | white | 13 x 75 | K3E K3EDTA, transparent label |
| Low Draw Volume, K3E K3EDTA - Non-ridged (pull cap) | | | | | |
| 454222 | 2ml | lavender | white | 13 x 75 | K3E K3EDTA |
| Low Draw Volume, Glucose - PREMIUM (Safety Twist Cap) | | | | | |
| 454061 | 2ml | grey | white | 13 x 75 | FX Sodium Fluoride / Potassium Oxalate |
| 454085 | 2ml | grey | white | 13 x 75 | FE Sodium Fluoride / K3EDTA |
| 454218 | 2ml | grey | white | 13 x 75 | FH Sodium Fluoride / Sodium Heparin |
| Low Draw Volume, Glucose - Non-ridged (pull cap) | | | | | |
| 454238 | 2ml | grey | white | 13 x 75 | FX Sodium Fluoride / Potassium Oxalate |
| 454221 | 2ml | grey | white | 13 x 75 | FE Sodium Fluoride / K3EDTA |



Accessories for Low Draw Volume Tubes

VACUETTE® Accessories for Low Draw Volume Tubes are ideal for thin veins and geriatric patients.

| Item No. | Description | Size | Packaging | | |
|----------|----------------------------------------------------------------------------------------------------|--------------|---------------------|----------|-----------|
| | | | Inner | Outer | |
| 450071 | VACUETTE® Multiple Use Drawing Needle black (sterile) | 22G x 1" | 0.7 x 25mm | 100 pcs. | 2000 pcs. |
| 450075 | VACUETTE® Multiple Use Drawing Needle black (sterile) | 22G x 1 1/2" | 0.7 x 38mm | 100 pcs. | 2000 pcs. |
| 450043 | VACUETTE® VISIO PLUS Needle black (sterile) | 22G x 1" | 0.7 x 25mm | 100 pcs. | 2000 pcs. |
| 450041 | VACUETTE® VISIO PLUS Needle black (sterile) | 22G x 1 1/2" | 0.7 x 38mm | 100 pcs. | 2000 pcs. |
| 411256 | VACUETTE® CLIX Safety Hypodermic Needle black, sterile, not made with natural rubber latex | 22G x 1 1/2" | 0.7 x 38mm | 100 pcs. | 800 pcs. |
| 411259 | VACUETTE® CLIX Safety Hypodermic Needle blue, sterile, not made with natural rubber latex | 23G x 1" | 0.6 x 25mm | 100 pcs. | 800 pcs. |
| 411258 | VACUETTE® CLIX Safety Hypodermic Needle orange, sterile, not made with natural rubber latex | 25G x 1" | 0.5 x 25mm | 100 pcs. | 800 pcs. |
| 450059 | Blood Collection / Infusion Set (sterile) | 21G x 3/4" | tubing length: 10cm | 50 pcs. | 1000 pcs. |
| 450155 | Blood Collection / Infusion Set (sterile) | 23G x 3/4" | tubing length: 19cm | 50 pcs. | 1000 pcs. |
| 450064 | Blood Collection Set + Luer Adapter (sterile) | 21G x 3/4" | tubing length: 10cm | 50 pcs. | 1000 pcs. |
| 450089 | Blood Collection Set + Luer Adapter (sterile) | 23G x 3/4" | tubing length: 19cm | 50 pcs. | 1000 pcs. |
| 450192 | SAFETY Blood Collection / Infusion Set (sterile) | 23G x 3/4" | tubing length: 30cm | 50 pcs. | 1000 pcs. |
| 450090 | SAFETY Blood Collection / Infusion Set (sterile) | 25G x 3/4" | tubing length: 19cm | 50 pcs. | 1000 pcs. |
| 450084 | SAFETY Blood Collection Set + Luer Adapter (sterile) | 23G x 3/4" | tubing length: 10cm | 50 pcs. | 1000 pcs. |
| 450099 | SAFETY Blood Collection Set + Luer Adapter (sterile) | 25G x 3/4" | tubing length: 30cm | 50 pcs. | 1000 pcs. |
| 450086 | SAFETY Blood Collection Set + Holder (sterile) | 23G x 3/4" | tubing length: 19cm | 24 pcs. | 240 pcs. |
| 450161 | SAFETY Blood Collection Set + Holder (sterile) | 23G x 3/4" | tubing length: 30cm | 24 pcs. | 240 pcs. |
| 450080 | SAFETY Blood Collection Set + Holder (sterile) | 25G x 3/4" | tubing length: 30cm | 24 pcs. | 240 pcs. |
| 450373 | Blood Collection Set + Holder (sterile) | 23G x 3/4" | tubing length: 19cm | 24 pcs. | 240 pcs. |
| 450375 | Blood Collection Set + Holder (sterile) | 25G x 3/4" | tubing length: 19cm | 24 pcs. | 240 pcs. |
| 840051 | VACUETTE® Tourniquet for children, latex free | | | 1 pc. | 500 pcs. |
| 840053 | VACUETTE® Disposable Tourniquet, latex free | | | 25 pcs. | 2500 pcs. |

Details on the Capillary Blood Collection System can be found from page 50 onwards.

VACUETTE® Safety Products

In the healthcare sector sharps injuries account for most work-related transmissions of infectious diseases, whereby needlestick injuries present by far the greatest risk. More than 50% of all registered cases concern nursing staff, followed by doctors and laboratory staff.

However, needlestick injuries need not be an occupational risk. By using **VACUETTE®** Safety Products, this danger can be virtually eliminated. Furthermore, by working with **VACUETTE®** Safety products you are compliant with criteria given in the EU Directive (EU 2010/32).

| | | |
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| ◀ | VACUETTE® QUICKSHIELD | 28 |
| | VACUETTE® QUICKSHIELD Safety Tube Holder | 28 |
| | VACUETTE® QUICKSHIELD Complete | 28 |
| | VACUETTE® QUICKSHIELD Complete PLUS | 28 |
| ◀ | VACUETTE® CLIX Safety Hypodermic Needle | 29 |
| g | SAFETY Blood Collection Sets | 30 |
| | SAFETY Blood Collection/Infusion Sets | 30 |
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VACUETTE® QUICKSHIELD

The **VACUETTE®** QUICKSHIELD Safety Tube Holder with rotating safety shield is especially suitable for routine blood collection. The tube holder can be used with either **VACUETTE®** Multiple Use Drawing Needles or **VACUETTE®** VISIO PLUS Needles.

The tube holder should be used exclusively with **VACUETTE®** needles.

| Item No. | Description | Size | Packaging | |
|------------------------------------------------------|-------------------------------------------------|-------------------------|-----------|-----------|
| | | | Inner | Outer |
| VACUETTE® QUICKSHIELD Safety Tube Holder | | | | |
| 450230 | VACUETTE® QUICKSHIELD Safety Tube Holder | | 50 pcs. | 1000 pcs. |
| VACUETTE® QUICKSHIELD Complete (sterile) | | | | |
| 450237 | VACUETTE® QUICKSHIELD Complete | 21G x 1 1/2" 0.8 x 38mm | 30 pcs. | 300 pcs. |
| 450238 | VACUETTE® QUICKSHIELD Complete | 21G x 1" 0.8 x 25mm | 30 pcs. | 300 pcs. |
| 450206 | VACUETTE® QUICKSHIELD Complete | 22G x 1 1/2" 0.7 x 38mm | 30 pcs. | 300 pcs. |
| 450234 | VACUETTE® QUICKSHIELD Complete | 22G x 1" 0.7 x 25mm | 30 pcs. | 300 pcs. |
| VACUETTE® QUICKSHIELD Complete PLUS (sterile) | | | | |
| 450235 | VACUETTE® QUICKSHIELD Complete PLUS | 21G x 1" 0.8 x 25mm | 30 pcs. | 300 pcs. |
| 450239 | VACUETTE® QUICKSHIELD Complete PLUS | 21G x 1 1/2" 0.8 x 38mm | 30 pcs. | 300 pcs. |
| 450226 | VACUETTE® QUICKSHIELD Complete PLUS | 22G x 1" 0.7 x 25mm | 30 pcs. | 300 pcs. |
| 450228 | VACUETTE® QUICKSHIELD Complete PLUS | 22G x 1 1/2" 0.7 x 38mm | 30 pcs. | 300 pcs. |



VACUETTE® CLIX Safety Hypodermic Needle

The **VACUETTE®** CLIX Safety Hypodermic Needle can be applied for both venous blood collection as well as injection purposes. The product has a safety mechanism which is an integral part of the device.

The product is available in a range of additional needle lengths and gauges. Please contact us for more details.

| Item No. | Description | Size | Packaging | |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------|-----------|----------|
| | | | Inner | Outer |
| VACUETTE® CLIX Safety Hypodermic Needle | | | | |
| 411252 | VACUETTE® CLIX Safety Hypodermic Needle yellow, sterile, not made with natural rubber latex | 20G x 1 1/2" 0.9 x 38mm | 100 pcs. | 800 pcs. |
| 411253 | VACUETTE® CLIX Safety Hypodermic Needle green, sterile, not made with natural rubber latex | 21G x 1 1/2" 0.8 x 38mm | 100 pcs. | 800 pcs. |
| 411254 | VACUETTE® CLIX Safety Hypodermic Needle green, sterile, not made with natural rubber latex | 21G x 1" 0.8 x 25mm | 100 pcs. | 800 pcs. |
| 411256 | VACUETTE® CLIX Safety Hypodermic Needle black, sterile, not made with natural rubber latex | 22G x 1 1/2" 0.7 x 38mm | 100 pcs. | 800 pcs. |
| 411259 | VACUETTE® CLIX Safety Hypodermic Needle blue, sterile, not made with natural rubber latex | 23G x 1" 0.6 x 25mm | 100 pcs. | 800 pcs. |
| 411258 | VACUETTE® CLIX Safety Hypodermic Needle orange, sterile, not made with natural rubber latex | 25G x 1" 0.5 x 25mm | 100 pcs. | 800 pcs. |
| VACUETTE® CLIX Safety Hypodermic Needle (60 working days lead time) | | | | |
| 411250 | VACUETTE® CLIX Safety Hypodermic Needle cream, sterile, not made with natural rubber latex | 19G x 1 1/2" 1.1 x 38 mm | 100 pcs. | 800 pcs. |
| 411251 | VACUETTE® CLIX Safety Hypodermic Needle cream, sterile, not made with natural rubber latex | 19G x 1" 1.1 x 25 mm | 100 pcs. | 800 pcs. |
| 411263 | VACUETTE® CLIX Safety Hypodermic Needle green, sterile, not made with natural rubber latex | 21G x 2" 0.8 x 50 mm | 100 pcs. | 800 pcs. |
| 411255 | VACUETTE® CLIX Safety Hypodermic Needle black, sterile, not made with natural rubber latex | 22G x 1 1/4" 0.7 x 30 mm | 100 pcs. | 800 pcs. |
| 411257 | VACUETTE® CLIX Safety Hypodermic Needle blue, sterile, not made with natural rubber latex | 23G x 1 1/4" 0.6 x 30 mm | 100 pcs. | 800 pcs. |
| 411262 | VACUETTE® CLIX Safety Hypodermic Needle lavender, sterile, not made with natural rubber latex | 24G x 1" 0.55 x 25 mm | 100 pcs. | 800 pcs. |
| 411260 | VACUETTE® CLIX Safety Hypodermic Needle orange, sterile, not made with natural rubber latex | 25G x 1/2" 0.5 x 12.5 mm | 100 pcs. | 800 pcs. |
| 411261 | VACUETTE® CLIX Safety Hypodermic Needle grey, sterile, not made with natural rubber latex | 27G x 1/2" 0.4 x 12.5 mm | 100 pcs. | 800 pcs. |
| Further product types available on request. | | | | |



SAFETY Blood Collection Sets

Safety Blood Collection Sets are available in four versions; either with or without Luer Adapter, or with Luer Adapter and Holder or with Blood Culture Holder.

| Item No. | Description | Size | Packaging | | |
|---------------------------------------------------------------|--------------------------------------------|------------|---------------------|---------|-----------|
| | | | Inner | Outer | |
| SAFETY Blood Collection/Infusion Sets (sterile) | | | | | |
| 450091 | SAFETY Blood Collection/Infusion Set | 21G x 3/4" | tubing length: 19cm | 50 pcs. | 1000 pcs. |
| 450191 | SAFETY Blood Collection/Infusion Set | 21G x 3/4" | tubing length: 30cm | 50 pcs. | 1000 pcs. |
| 450092 | SAFETY Blood Collection/Infusion Set | 23G x 3/4" | tubing length: 19cm | 50 pcs. | 1000 pcs. |
| 450192 | SAFETY Blood Collection/Infusion Set | 23G x 3/4" | tubing length: 30cm | 50 pcs. | 1000 pcs. |
| 450090 | SAFETY Blood Collection/Infusion Set | 25G x 3/4" | tubing length: 19cm | 50 pcs. | 1000 pcs. |
| SAFETY Blood Collection Sets + Luer Adapters (sterile) | | | | | |
| 450083 | SAFETY Blood Collection Set + Luer Adapter | 21G x 3/4" | tubing length: 10cm | 50 pcs. | 1000 pcs. |
| 450081 | SAFETY Blood Collection Set + Luer Adapter | 21G x 3/4" | tubing length: 19cm | 50 pcs. | 1000 pcs. |
| 450095 | SAFETY Blood Collection Set + Luer Adapter | 21G x 3/4" | tubing length: 30cm | 50 pcs. | 1000 pcs. |
| 450084 | SAFETY Blood Collection Set + Luer Adapter | 23G x 3/4" | tubing length: 10cm | 50 pcs. | 1000 pcs. |
| 450082 | SAFETY Blood Collection Set + Luer Adapter | 23G x 3/4" | tubing length: 19cm | 50 pcs. | 1000 pcs. |
| 450096 | SAFETY Blood Collection Set + Luer Adapter | 23G x 3/4" | tubing length: 30cm | 50 pcs. | 1000 pcs. |
| 450099 | SAFETY Blood Collection Set + Luer Adapter | 25G x 3/4" | tubing length: 30cm | 50 pcs. | 1000 pcs. |

| Item No. | Description | Size | Packaging | | |
|-----------------------------------------------------------------------|----------------------------------------------------|------------|---------------------|---------|----------|
| | | | Inner | Outer | |
| SAFETY Blood Collection Sets + Holders (sterile) | | | | | |
| 450087 | SAFETY Blood Collection Set + Holder | 21G x 3/4" | tubing length: 10cm | 24 pcs. | 240 pcs. |
| 450085 | SAFETY Blood Collection Set + Holder | 21G x 3/4" | tubing length: 19cm | 24 pcs. | 240 pcs. |
| 450160 | SAFETY Blood Collection Set + Holder | 21G x 3/4" | tubing length: 30cm | 24 pcs. | 240 pcs. |
| 450088 | SAFETY Blood Collection Set + Holder | 23G x 3/4" | tubing length: 10cm | 24 pcs. | 240 pcs. |
| 450086 | SAFETY Blood Collection Set + Holder | 23G x 3/4" | tubing length: 19cm | 24 pcs. | 240 pcs. |
| 450161 | SAFETY Blood Collection Set + Holder | 23G x 3/4" | tubing length: 30cm | 24 pcs. | 240 pcs. |
| 450080 | SAFETY Blood Collection Set + Holder | 25G x 3/4" | tubing length: 30cm | 24 pcs. | 240 pcs. |
| SAFETY Blood Collection Sets + Blood Culture Holders (sterile) | | | | | |
| 450182 | SAFETY Blood Collection Set + Blood Culture Holder | 21G x 3/4" | tubing length: 19cm | 24 pcs. | 240 pcs. |
| 450183 | SAFETY Blood Collection Set + Blood Culture Holder | 23G x 3/4" | tubing length: 19cm | 24 pcs. | 240 pcs. |
| 450184 | SAFETY Blood Collection Set + Blood Culture Holder | 21G x 3/4" | tubing length: 30cm | 24 pcs. | 240 pcs. |
| 450185 | SAFETY Blood Collection Set + Blood Culture Holder | 23G x 3/4" | tubing length: 30cm | 24 pcs. | 240 pcs. |

VACUETTE® Blood Collection Accessories / Medical Devices

Simple handling and safety are of the highest importance during daily routine procedures. The requirements of the user are therefore the prime consideration during development of **VACUETTE®** Blood Collection Accessories. This led to development of products like the **HOLDEX®** Single-Use Holder, which was designed especially for patients with difficult vein conditions. The Luer nozzle of the **HOLDEX®** Single-Use Holder, positioned off-centre, guarantees the optimal angle for venipuncture.

Another product is the **VACUETTE®** Multiple Use Drawing Needle. The smoothly ground tip and design ensure gentle penetration of the patient's vein. More details on **VACUETTE®** Blood Collection Accessories can be found on the following pages.

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Tube Holders

Tube Holders should be used exclusively with **VACUETTE®** Multiple Use Drawing Needles or **VACUETTE®** VISIO PLUS Needles, as both components are designed for optimal compatibility with one another. The use of these products with needles from other manufacturers is the responsibility of the user.

| Item No. | Description | Packaging | | |
|---------------------------------------------|----------------------------------------------------------------------------------------------------|-----------|-----------|-----------|
| | | Inner | 2nd Inner | Outer |
| Standard Tube Holders | | | | |
| 450201 | Standard Tube Holder | 10 pcs. | --- | 1200 pcs. |
| 450208 | Standard Tube Holder | 200 pcs. | --- | 2000 pcs. |
| 450209 | Standard Tube Holder | 100 pcs. | --- | 2000 pcs. |
| Speedy Quick Release Holder | | | | |
| 450212 | Speedy Quick Release Holder | 10 pcs. | --- | 1000 pcs. |
| HOLDEX® Single-Use Holders (sterile) | | | | |
| 450216 | Plastic Cannula HOLDEX®, single-packed | 1 pc. | --- | 1000 pcs. |
| 450241 | HOLDEX® Single-Use Holder PP, single-packed, not made with natural rubber latex | 1 pc. | 100 pcs. | 800 pcs. |
| 450263 | HOLDEX® Single-Use Holder PP, single-packed | 1 pc. | 100 pcs. | 800 pcs. |
| Blood Transfer Unit (sterile) | | | | |
| 450225 | Blood Transfer Unit PP, single-packed | 1 pc. | 100 pcs. | 800 pcs. |
| Blood Culture Holder | | | | |
| 450181 | Blood Culture Holder, non sterile | 40 pcs. | --- | 320 pcs. |
| 450197 | Blood Culture Holder + Luer Adapter 20G single-packed, sterile, not made with natural rubber latex | 24 pcs. | --- | 240 pcs. |



Blood Collection Sets

These products are primarily for use on patients with difficult vein conditions. Blood Collection Sets are available with different tubing lengths and needle gauges. The sets are available pre-assembled with Luer Adapter or Luer Adapter and Holder.

| Item No. | Description | Size | Packaging | |
|----------------------------------------------------------------|---------------------------------------------|------------|---------------------|-------------------|
| | | | Inner | Outer |
| Blood Collection / Infusion Sets (sterile) | | | | |
| 450059 | Blood Collection / Infusion Set | 21G x 3/4" | Tubing length: 10cm | 50 pcs. 1000 pcs. |
| 450153 | Blood Collection / Infusion Set | 21G x 3/4" | Tubing length: 19cm | 50 pcs. 1000 pcs. |
| 450155 | Blood Collection / Infusion Set | 23G x 3/4" | Tubing length: 19cm | 50 pcs. 1000 pcs. |
| Blood Collection Sets + Luer Adapters (sterile) | | | | |
| 450064 | Blood Collection Set + Luer Adapter | 21G x 3/4" | Tubing length: 10cm | 50 pcs. 1000 pcs. |
| 450065 | Blood Collection Set + Luer Adapter | 21G x 3/4" | Tubing length: 30cm | 50 pcs. 1000 pcs. |
| 450066 | Blood Collection Set + Luer Adapter | 21G x 3/4" | Tubing length: 19cm | 50 pcs. 1000 pcs. |
| 450089 | Blood Collection Set + Luer Adapter | 23G x 3/4" | Tubing length: 19cm | 50 pcs. 1000 pcs. |
| 450159 | Blood Collection Set + Luer Adapter | 23G x 3/4" | Tubing length: 30cm | 50 pcs. 1000 pcs. |
| Blood Collection Sets + Holders (sterile) | | | | |
| 450371 | Blood Collection Set + Holder | 21G x 3/4" | Tubing length: 19cm | 24 pcs. 240 pcs. |
| 450373 | Blood Collection Set + Holder | 23G x 3/4" | Tubing length: 19cm | 24 pcs. 240 pcs. |
| 450375 | Blood Collection Set + Holder | 25G x 3/4" | Tubing length: 19cm | 24 pcs. 240 pcs. |
| Blood Collection Sets + Blood Culture Holders (sterile) | | | | |
| 450186 | Blood Collection Set + Blood Culture Holder | 21G x 3/4" | Tubing length: 19cm | 24 pcs. 240 pcs. |



Hypodermic Luer Needles / Luer Adapters

Luer needles have a female Luer and can, for example, be used in combination with the HOLDEX® Single-Use Holder. Luer adapters have a male Luer and are suitable for use with products like Safety Blood Collection Sets and Luer needles.

| Item No. | Description | Size | Packaging | | | |
|----------------------------------------------------------|--------------------------------|--------------|------------|-----------|-----------|------------|
| | | | Inner | 2nd Inner | Outer | |
| Hypodermic Luer Needles / Luer Adapters (sterile) | | | | | | |
| 411072 | Hypodermic Luer Needle, yellow | 20G x 1 1/2" | 0.9 x 40mm | 100 pcs. | 2000 pcs. | 10000 pcs. |
| 411073 | Hypodermic Luer Needle, green | 21G x 1 1/2" | 0.8 x 40mm | 100 pcs. | 2000 pcs. | 10000 pcs. |
| 411074 | Hypodermic Luer Needle, black | 22G x 1 1/2" | 0.7 x 40mm | 100 pcs. | 2000 pcs. | 10000 pcs. |
| 450070 | VACUETTE® Luer Adapter | 20G | | 100 pcs. | 2000 pcs. | 6000 pcs. |



Blood Collection Needles

Blood Collection Needles are predominantly used in routine blood collection and are exclusively single-use. The colour of the needle protective cap simplifies visual recognition of the individual needle gauges. Yellow symbolises the needle dimension 20 G (0.90 mm), green 21 G (0.80 mm) and black 22 G (0.70 mm). Blood Collection Needles are supplied in two lengths: 1" and 1 1/2" (25 mm and 38 mm).

| Item No. | Description | Size | Packaging | | | |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------|-------------|-----------|-----------|-----------|
| | | | Inner | 2nd Inner | Outer | |
| VACUETTE® Multiple Use Drawing Needles (sterile) | | | | | | |
| 451047 | VACUETTE® Multiple Use Drawing Needle, pink, suitable for veterinary use | 18G x 1" | 1.25 x 25mm | 100 pcs. | 2000 pcs. | 6000 pcs. |
| 451048 | VACUETTE® Multiple Use Drawing Needle, pink, suitable for veterinary use | 18G x 1 1/2" | 1.25 x 38mm | 100 pcs. | 2000 pcs. | 6000 pcs. |
| 450071 | VACUETTE® Multiple Use Drawing Needle, black | 22G x 1" | 0.7 x 25mm | 100 pcs. | 2000 pcs. | 6000 pcs. |
| 450072 | VACUETTE® Multiple Use Drawing Needle, green | 21G x 1" | 0.8 x 25mm | 100 pcs. | 2000 pcs. | 6000 pcs. |
| 450073 | VACUETTE® Multiple Use Drawing Needle, yellow | 20G x 1" | 0.9 x 25mm | 100 pcs. | 2000 pcs. | 6000 pcs. |
| 450075 | VACUETTE® Multiple Use Drawing Needle, black | 22G x 1 1/2" | 0.7 x 38mm | 100 pcs. | 2000 pcs. | 6000 pcs. |
| 450076 | VACUETTE® Multiple Use Drawing Needle, green | 21G x 1 1/2" | 0.8 x 38mm | 100 pcs. | 2000 pcs. | 6000 pcs. |
| 450077 | VACUETTE® Multiple Use Drawing Needle, yellow | 20G x 1 1/2" | 0.9 x 38mm | 100 pcs. | 2000 pcs. | 6000 pcs. |
| VACUETTE® Single Sample Needles (sterile, for veterinary use only) | | | | | | |
| 451068 | VACUETTE® Single Sample Needle, pink | 18G x 1" | 1.25 x 25mm | 100 pcs. | 2000 pcs. | 6000 pcs. |
| 451069 | VACUETTE® Single Sample Needle, pink | 18G x 1 1/2" | 1.25 x 38mm | 100 pcs. | 2000 pcs. | 6000 pcs. |



VACUETTE® VISIO PLUS Needles

The **VACUETTE®** VISIO PLUS Needle with optical venipuncture control can make an important contribution to simplifying blood collection routine for phlebotomists. The needle has a transparent plastic hub, which functions as a flash chamber. Successful vein entry is indicated when the flash chamber fills with blood.

| Item No. | Description | Size | Packaging | | | |
|-----------------------------------------------|-------------------------------------------|--------------|------------|-----------|-----------|-----------|
| | | | Inner | 2nd Inner | Outer | |
| VACUETTE® VISIO PLUS Needles (sterile) | | | | | | |
| 450040 | VACUETTE® VISIO PLUS Needle, green | 21G x 1 1/2" | 0.8 x 38mm | 100 pcs. | 2000 pcs. | 6000 pcs. |
| 450041 | VACUETTE® VISIO PLUS Needle, black | 22G x 1 1/2" | 0.7 x 38mm | 100 pcs. | 2000 pcs. | 6000 pcs. |
| 450042 | VACUETTE® VISIO PLUS Needle, green | 21G x 1" | 0.8 x 25mm | 100 pcs. | 2000 pcs. | 6000 pcs. |
| 450043 | VACUETTE® VISIO PLUS Needle, black | 22G x 1" | 0.7 x 25mm | 100 pcs. | 2000 pcs. | 6000 pcs. |



VeinViewer® Flex and Vision2

For real-time visualization in HD quality of veins up to 10mm below the skin and blood patterns up to 15mm below the skin, providing a compact solution for all vascular access needs and increasing first-stick success rates.

A 5-year warranty on both devices ensures peace of mind for the user.

| Item No. | Description | Packaging | |
|----------|-------------------------------------------------------------|-----------|-------|
| | | Inner | Outer |
| 890001 | VeinViewer® Flex, contains 2 pcs. Lithium Ion batteries | 1 pc. | 1 pc. |
| 890004 | VeinViewer® Vision2, contains 1 pc. Lithium Ion batterie | 1 pc. | 1 pc. |
| 890003 | Carrying Case for VeinViewer® Flex | 1 pc. | 1 pc. |
| 890010 | Spare Rechargeable Battery for VeinViewer® Flex and Vision2 | 1 pc. | 1 pc. |

Please check availability on your market with your GBO sales representative.



Snap Caps

For recapping opened **VACUETTE**® tubes. Snap caps are suitable for all 13mm **VACUETTE**® tubes.

| Item No. | Cap Colour | Description | Packaging | |
|----------|------------|-----------------------------------|-----------|-----------|
| | | | Inner | Outer |
| 371516 | white | Snap Cap for recapping 13mm tubes | 1000 pcs. | 5000 pcs. |
| 371517 | green | Snap Cap for recapping 13mm tubes | 1000 pcs. | 5000 pcs. |
| 371518 | yellow | Snap Cap for recapping 13mm tubes | 1000 pcs. | 5000 pcs. |
| 371519 | royal blue | Snap Cap for recapping 13mm tubes | 1000 pcs. | 5000 pcs. |
| 371522 | red | Snap Cap for recapping 13mm tubes | 1000 pcs. | 5000 pcs. |
| 371523 | lavender | Snap Cap for recapping 13mm tubes | 1000 pcs. | 5000 pcs. |
| 371527 | pink | Snap Cap for recapping 13mm tubes | 1000 pcs. | 5000 pcs. |



VACUETTE® ID Snap Rings

By using ID Snap Rings, tubes for special analysis purposes can be visually identified at first glance in routine procedures.

The ID Snap Rings fit all **VACUETTE**® 13mm tubes as well as all 16mm tubes.

| Item No. | Description | Inner | Packaging 2nd Inner | Outer |
|----------|--------------------------------------------|----------|------------------------|-----------|
| | | | | |
| 458711 | VACUETTE ® ID Snap Ring, orange | 500 pcs. | --- | 4000 pcs. |
| 458712 | VACUETTE ® ID Snap Ring, green | 500 pcs. | --- | 4000 pcs. |
| 458713 | VACUETTE ® ID Snap Ring, pink | 500 pcs. | --- | 4000 pcs. |
| 458714 | VACUETTE ® ID Snap Ring, light blue | 500 pcs. | --- | 4000 pcs. |
| 458715 | VACUETTE ® ID Snap Ring, grey | 500 pcs. | --- | 4000 pcs. |



VacuDrop

VacuDrop is a non-sterile plastic spike, which in combination with **VACUETTE**® blood collection tubes, is used to collect smears of blood without having to open the **VACUETTE**® blood collection tube. The VacuDrop ensures the hygienic handling of blood samples, especially in haematology laboratories.

| Item No. | Description | Inner | Packaging 2nd Inner | Outer |
|----------|-------------|-------|------------------------|-------|
| | | | | |



Additional Accessories

Additional accessories, such as tourniquets complete the comprehensive **VACUETTE**® Blood Collection range.

| Item No. | Description | Inner | Packaging 2nd Inner | Outer |
|----------|-------------------------------------------------------------------|----------------|------------------------|-----------|
| | | | | |
| 840051 | VACUETTE ® Tourniquet for children | --- | --- | 500 pcs. |
| 840053 | VACUETTE ® Disposable Tourniquet | 25 pcs. / roll | 20 rolls | 100 rolls |
| 840056 | VACUETTE ® Super-T Disposable Tourniquet | 80 pcs. | --- | 160 pcs. |
| 840057 | VACUETTE ® Super-T _{SP} Single Patient Tourniquet | 30 pcs. | --- | 150 pcs. |



VACUETTE® SECONDARY Tubes

VACUETTE® SECONDARY Tubes are perfect for aliquoting and pooling, for freezing and storing as well as for the transport of sample material. Two different materials (PET and PP) and packaging options (bulk or stack packed) guarantee maximum flexibility for all applications. Both lines are distinguished by their memorable product names: MULTIPLEX = bulk packed and SIMPLEX = stack packed.

| Item No. | Description | Packaging | |
|--------------------------------------------------|--------------------------------------------------------------|-----------|-----------|
| | | Inner | Outer |
| SECONDARY Tubes MULTIPLEX, PP - PREMIUM | | | |
| 459000 | SECONDARY Tube MULTIPLEX, PP, 13x75mm, with white Screw Cap | 500 pcs. | 2000 pcs. |
| 459001 | SECONDARY Tube MULTIPLEX, PP, 13x75mm, with orange Screw Cap | 500 pcs. | 2000 pcs. |
| 459010 | SECONDARY Tube MULTIPLEX, PP, 13x75mm, without cap | 500 pcs. | 2000 pcs. |
| SECONDARY Tubes MULTIPLEX, PET - PREMIUM | | | |
| 459011 | SECONDARY Tube MULTIPLEX, PET, 13x75mm, without cap | 500 pcs. | 2000 pcs. |
| SECONDARY Tubes SIMPLEX, PET - Non-ridged | | | |
| 459020 | SECONDARY Tube SIMPLEX RD*, PET, 13x75mm, without cap | 496 pcs. | 1984 pcs. |
| 459021 | SECONDARY Tube SIMPLEX BC**, PET, 13x75mm, without cap | 496 pcs. | 1984 pcs. |

* designed for Roche PVT analyser

** designed for Beckman Coulter (Olympus) analyser



Greiner Bio-One Multipurpose Beakers

The Greiner Bio-One Multipurpose Beaker is manufactured from polypropylene. The sterile beaker with screw cap features an INTEGRITY SEAL, which ensures intactness of the product.

The beaker is shatterproof and resistant against chemical influences.

| Item No. | Description | Packaging |
|----------|------------------------------------------------------------------------------------|-----------|
| 724401 | Multipurpose Beaker 100 ml, PP, without screw cap, graduated, natural, non-sterile | 720 pcs. |
| 724170 | Screw cap, 61mm, natural, for 724401 | 720 pcs. |
| 724173 | Screw cap, 61mm, red, for 724401, bulk-packed | 720 pcs. |
| 724402 | Multipurpose beaker, PP, 100 ml, with screw cap, graduated, natural, non-sterile | 300 pcs. |
| 724461 | Multipurpose beaker, PP, 100 ml, with screw cap, graduated, natural, sterile | 300 pcs. |
| 724473 | Multipurpose beaker, PP, 100 ml, with screw cap red, graduated, sterile | 300 pcs. |



Decappers

Depending on the type of instrument, the VACUETTE® UNICAP Decappers open VACUETTE® Blood Collection Tubes quickly and safely, either directly in the analyser rack or after placing tubes in adapters of the decapping belt. The time consuming process of sorting out various tube types prior to decapping is no longer necessary, as the UNICAP instruments can open different tube types in one working step.

| Item No. | Description | Packaging | |
|-------------------------|---------------------------------------------------------------------------|-----------|-------|
| | | Inner | Outer |
| UNICAP Decappers | | | |
| 855900 | VACUETTE® UNICAP Decapper for Roche / Hitachi Racks | 1 pc. | 1 pc. |
| 855901 | VACUETTE® UNICAP Decapper for Tecan Racks | 1 pc. | 1 pc. |
| 855904 | VACUETTE® UNICAP Belt Decapper (with belt adapter for insertion of tubes) | 1 pc. | 1 pc. |
| Accessories | | | |
| 855907 | VACUETTE® UNICAP Belt Adapter 100 mm (grey) | 40 pcs. | |
| 855908 | VACUETTE® UNICAP Belt Adapter 75 mm (anthracite) | 40 pcs. | |

VACUETTE® Transport Line

With the increase in collaborations in the laboratory sector, as well as the rising trend in healthcare towards centralisation, transport of specimen material over longer distances is more and more a necessity.

The **VACUETTE®** Transport Line products allow for the secure transport of Biological Substances (UN 3373) Category B - from collection of the specimen right up to analysis in the laboratory. Each individual component of the transport line, consisting of primary vessel, secondary packaging and outer packaging (third packaging), corresponds to ADR/RID (packaging instructions P650), IATA-DG, ICAO-TI and IMDG-Code. The Transport Systems have been tested by an independent accredited institution.



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VACUETTE® Transport Line

The **VACUETTE®** Transport Line ensures safe transport of biological substances category B from blood collection right up until analysis in the laboratory.

The transport systems have been tested and approved in accordance with ADR/RID.

| Item No. | Description | Packaging | |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------|----------|
| | | Inner | Outer |
| VACUETTE® Transport Boxes (VTB) | | | |
| 472001 | VACUETTE® Transport Box (VTB) incl. Foam Insert for 40 Tubes <u>with</u> Transport Carton HK0190 | 1 pc. | 10 pcs. |
| 472040 | VACUETTE® Transport Box (VTB) incl. Foam Insert for 40 Tubes <u>without</u> Transport Carton HK0190 | 1 pc. | 10 pcs. |
| 472010 | Foam Insert grey for VACUETTE® Transport Box (VTB) for 40 Tubes | 1 pc. | 168 pcs. |
| HK0190 | Mailing Carton for 1 pc. VACUETTE® Transport Box (VTB) | 1 pc. | --- |
| 472016 | Cooler Pack for VACUETTE® Transport Box (VTB), light blue L220 x B120 x H111mm | 1 pc. | 104 pcs. |
| 472011 | GBO Rack for Blood Collection Tubes, 10 positions, autoclavable | 1 pc. | 100 pcs. |
| VACUETTE® Transport Containers (VTC) | | | |
| 800105 | VACUETTE® Transport Container (VTC) incl. Foam Insert for 12 Tubes <u>with</u> Transport Carton HK0259 | 1 pc. | 12 pcs. |
| 800110 | VACUETTE® Transport Container (VTC) incl. Foam Insert for 12 Tubes <u>without</u> Transport Carton HK0259 | 1 pc. | 12 pcs. |
| 800101 | Foam Insert for VACUETTE® Transport Container (VTC) for 12 Tubes | 1 pc. | 20 pcs. |
| HK0259 | Mailing Carton for 1 pc. VACUETTE® Transport Container (VTC) | 1 pc. | --- |
| 472017 | Cooler Pack for VACUETTE® Transport Container (VTC), light blue, Ø 90mm | 1 pc. | 200 pcs. |
| 472015 | Absorbent Pad for VACUETTE® Transport Box (VTB) and VACUETTE® Transport Container (VTC) | --- | 100 pcs. |



Accessories VACUETTE® Transport Line

Carrier bags are suitable for convenient transport of one or several **VACUETTE®** transport boxes or containers. The transport bags consist of isothermal material and are thus equally suitable for keeping samples cool. The ThermoScan Temperature Monitoring Unit can be used wherever it is necessary to monitor the temperature over a longer period of time with a calibrated instrument.

| Item No. | Description | Packaging |
|-----------------------------------------------|------------------------------------------------------------------------------------------------|--------------------|
| | | |
| Bags | | |
| 472020 | Carrier Bag (Isotherm), small, dark blue, for 1 pc. VACUETTE® Transport Box (VTB) | 1 pc. |
| 472022 | Carrier Bag (Isotherm), small, dark blue, for 1 pc. VACUETTE® Transport Container (VTC) | 1 pc. |
| 472030 | Carrier Bag (Isotherm), medium, dark blue for 2 pcs. VACUETTE® Transport Boxes (VTB) | 1 pc. |
| 472023 | Carrier Bag (Isotherm), medium, dark blue for 3 pcs. VACUETTE® Transport Boxes (VTB) | 1 pc. |
| 472024 | Carrier Bag (Isotherm), big, dark blue for 4 pcs. VACUETTE® Transport Boxes (VTB) | 1 pc. |
| Labels | | |
| HE4723 | Package label UN3373, 65mm x 65mm, Polyester 50my white | 1 roll (1000 pcs.) |
| ThermoScan Temperature Monitoring Unit | | |
| 472201 | ThermoScan with certificate (2x Logger, 1x Reader, 1x Software) | 1 pc. |
| 472203 | Temperature Logger for ThermoScan (with certificate) | 1 pc. |

Disposal

Needlestick injuries are a particular risk during the disposal of sharp or pointed objects. To reduce the risk for the user to a minimum, only containers specifically for this purpose should be used. Furthermore, the safety mechanism of the safety product should be activated prior to disposal.

Disposal containers are part of our product line and we can provide a broad range of sizes from 0.6 to 50 litre volume. All containers are of penetration-proof plastic and feature a temporary and permanent closure.



| | |
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Sharps Disposal Containers

Used blood collection equipment should always be disposed of in non-penetrable containers. All containers detailed here are suitable for safe, contamination-free disposal of needles, sharps and dangerous objects. A range of containers in different sizes is available, from 0.6 litres to 50 litres.

| Item No. | Description | Size | Packaging | |
|--------------------|-------------|-----------|-----------|----------|
| | | | Inner | Outer |
| Minicompact | | | | |
| 450330 | Minicompact | 0.6 Litre | 1 pc. | 150 pcs. |
| 450331 | Minicompact | 1.0 Litre | 1 pc. | 150 pcs. |
| Biocompact | | | | |
| 450332 | Biocompact | 1.8 Litre | 1 pc. | 30 pcs. |
| 450333 | Biocompact | 3.0 Litre | 1 pc. | 30 pcs. |
| 450334 | Biocompact | 5.0 Litre | 1 pc. | 30 pcs. |
| 450335 | Biocompact | 10 Litre | 1 pc. | 30 pcs. |
| Biogrip | | | | |
| 450338 | Biogrip | 30 Litre | 1 pc. | 1 pc. |
| 450339 | Biogrip | 50 Litre | 1 pc. | 1 pc. |



Sharps Disposal Containers - Accessories

Other accessories, such as holders and a tray, complement the range of Greiner Bio-One's sharps containers.

| Item No. | Description | Packaging | |
|--------------------|----------------------------------------------------------------------------------------------------------|-----------|---------|
| | | Inner | Outer |
| Accessories | | | |
| 450340 | Minicompact Table Support, for 0.6 L and 1 L Minicompact containers | 1 pc. | |
| 450341 | Biocompact Table Support, for 1.8 L and 3 L Biocompact containers | 1 pc. | 30 pcs. |
| 450342 | All-Purpose Holder for Sharps Disposal Container for Biocompact 1.8 / 3 / 5 / 10 litre | 1 pc. | 30 pcs. |
| 450343 | Compact Blood Collection Tray für Sharps Disposal Container white for 0.6 / 1 / 1.8 / 3 litre containers | 1 pc. | 22 pcs. |

MiniCollect® Capillary Blood Collection System

MiniCollect® is the ideal system for collecting, transporting and processing capillary blood. **MiniCollect®** offers a gentle way to collect small blood samples for a wide range of analyses. The system is perfectly suited for young children, geriatric patients as well as patients with fragile veins.

MiniCollect® is also recommended in situations where venous blood collection proves particularly difficult, such as for patients with extensive burns.

The **MiniCollect®** tube includes an integrated scoop, allowing droplets of blood to be collected easily and hygienically. Accessories such as capillaries and funnels are redundant due to the integrated scoop. This increases efficiency compared to conventional capillary blood collection systems.

| | |
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Capillary Blood Collection System (Tubes)

MiniCollect® tubes can be threaded into a PREMIUM carrier tube. This combination corresponds to the dimensions of a standard 13 x 75mm tube. The filling volume ranges on the EDTA and serum tubes make sample collection even easier. Two easily visible filling marks on the tubes allow for greater flexibility in use.

Change in 2018: Label **Z** Serum will be changed to **CAT** Serum according to ISO 6710 (2017)

| Item No. | Description | Cap Colour | Nom. Vol. | Inner | Packaging 2. Inner | Outer |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------|--------------|---------|--------------------|-----------|
| Z No Additive | | | | | | |
| 450542 | Z No Additive | white | --- | 50 pcs. | 500 pcs. | 2000 pcs. |
| Z Serum (Area of Application: Serum tests) | | | | | | |
| 450534 | Z Serum | red | 0.5 - 1ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| Z Serum Sep (Area of Application: Serum tests) | | | | | | |
| 450533 | Z Serum Separator | gold | 0.5 - 0.8ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| LH Lithium Heparin (Area of Application: Plasma tests) | | | | | | |
| 450536 | LH Lithium Heparin | green | 0.5ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| 450537 | LH Lithium Heparin | green | 1ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| LH Lithium Heparin Sep (Area of Application: Plasma tests) | | | | | | |
| 450535 | LH Lithium Heparin Separator | light green | 0.8ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| K3E K3EDTA (Area of Application: Haematology) | | | | | | |
| 450530 | K3E K3EDTA | lavender | 0.25 - 0.5ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| 450531 | K3E K3EDTA | lavender | 1ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| K2E K2EDTA (Area of Application: Haematology) | | | | | | |
| 450532 | K2E K2EDTA | lavender | 0.25 - 0.5ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| FX Sodium Fluoride / Potassium Oxalate (Area of Application: Glucose tests) | | | | | | |
| 450540 | FX Sodium Fluoride / Potassium Oxalate | grey | 0.25ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| 450541 | FX Sodium Fluoride / Potassium Oxalate | grey | 0.5ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| 9NC Coagulation 3.2% (Area of Application: Coagulation tests (only suitable for venous blood)) | | | | | | |
| 450538 | 9NC Coagulation 3.2% (only suitable for venous blood) | light blue | 0.5ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| 450539 | 9NC Coagulation 3.2% (only suitable for venous blood) | light blue | 1ml | 50 pcs. | 500 pcs. | 2000 pcs. |



Capillary Blood Collection System (Complete Tubes)

The Complete version makes life easier when samples are automatically analysed in instruments, as the **MiniCollect®** tube is assembled inside a carrier tube. The tube dimensions correspond to the standard 13x75mm size.

Change in 2018: Label **Z** Serum will be changed to **CAT** Serum according to ISO 6710 (2017)

| Item No. | Description | Cap Colour | Nom. Vol. | Inner | Packaging 2. Inner | Outer |
|-------------------------------------------------------------------------------------------------------|----------------------------------------|-------------|--------------|---------|--------------------|-----------|
| Z No Additive | | | | | | |
| 450555 | Z No Additive | white | --- | 50 pcs. | 500 pcs. | 2000 pcs. |
| Z Serum (Area of Application: Serum tests) | | | | | | |
| 450549 | Z Serum | red | 0.5 - 1ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| Z Serum Sep (Area of Application: Serum tests) | | | | | | |
| 450548 | Z Serum Separator | gold | 0.5 - 0.8ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| LH Lithium Heparin (Area of Application: Plasma tests) | | | | | | |
| 450551 | LH Lithium Heparin | green | 1ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| LH Lithium Heparin Sep (Area of Application: Plasma tests) | | | | | | |
| 450550 | LH Lithium Heparin Separator | light green | 0.8ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| K3E K3EDTA (Area of Application: Haematology) | | | | | | |
| 450545 | K3E K3EDTA | lavender | 0.25 - 0.5ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| 450546 | K3E K3EDTA | lavender | 1ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| K2E K2EDTA (Area of Application: Haematology) | | | | | | |
| 450547 | K2E K2EDTA | lavender | 0.25 - 0.5ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| FX Sodium Fluoride / Potassium Oxalate (Area of Application: Glucose tests) | | | | | | |
| 450552 | FX Sodium Fluoride / Potassium Oxalate | grey | 0.25ml | 50 pcs. | 500 pcs. | 2000 pcs. |
| 9NC Coagulation 3.2% (Area of Application: Coagulation tests (only suitable for venous blood)) | | | | | | |
| 450556 | 9NC Coagulation sodium citrate 3.2% | light blue | 1ml | 50 pcs. | 500 pcs. | 2000 pcs. |



Capillary Blood Collection System (Lancets)

Both, the button activated **MiniCollect®** safety lancets and the contact activated Lancelino safety lancets are available with a wide range of puncture depths and blade sizes / needle gauges to ensure that the puncture wound can be kept as small as possible. The safety mechanism ensures that the blade/needle is automatically retracted after the puncture and is safely enclosed within the plastic housing.

| Item No. | Description | Packaging | |
|--------------------------------------------------------------------------|---------------------------------------------------------|-----------|-----------|
| | | Inner | Outer |
| Safety Lancets with Blade (button activated, sterile) | | | |
| 450427 | Safety Lancet, pink, penetration depth 1mm | 200 pcs. | 2000 pcs. |
| 450428 | Safety Lancet, green, penetration depth 1.5mm | 200 pcs. | 2000 pcs. |
| 450429 | Safety Lancet, blue, penetration depth 2mm | 200 pcs. | 2000 pcs. |
| Safety Lancets with Needle (button activated, sterile) | | | |
| 450438 | Safety Lancet, lavender, 28G, penetration depth 1.25mm | 200 pcs. | 2000 pcs. |
| 450439 | Safety Lancet, orange, 23G, penetration depth 2.25mm | 200 pcs. | 2000 pcs. |
| Lancelino Safety Lancets with Blade (contact activated, sterile) | | | |
| 450524 | Safety Lancet 0.8mm, yellow, penetration depth 2mm | 200 pcs. | 2000 pcs. |
| Lancelino Safety Lancets with Needle (contact activated, sterile) | | | |
| 450520 | Safety Lancet 30G, light green, penetration depth 1.2mm | 200 pcs. | 2000 pcs. |
| 450521 | Safety Lancet 25G, lavender, penetration depth 1.5mm | 200 pcs. | 2000 pcs. |
| 450522 | Safety Lancet 21G, blue, penetration depth 1.8mm | 200 pcs. | 2000 pcs. |
| 450523 | Safety Lancet 21G, green, penetration depth 2.4mm | 200 pcs. | 2000 pcs. |



Capillary Blood Collection System (Accessories)

MiniCollect® tubes can be threaded into a PREMIUM carrier tube. This combination corresponds to the dimensions of a standard 13 x 75mm tube. It is not always necessary to change the settings of analysis instruments, since in many cases both venous and capillary blood samples can be analyzed in the same way.

| Item No. | Description | Packaging | |
|----------------------|------------------------------------|-----------|----------|
| | | Inner | Outer |
| Carrier Tubes | | | |
| 450417 | Carrier Tube, 13x75, PREMIUM | 100 pcs. | 500 pcs. |
| 450418 | Carrier Tube amber, 13x75, PREMIUM | 100 pcs. | 500 pcs. |

VACUETTE® Automatic and Manual ESR Systems and Accessories

The safe and reliable ESR readers are distinguished by their simple handling. They are fully automated and can be used in the ward, the doctor's office or in a laboratory. The readers work using infrared-sensors, which in contrast to visual methods guarantee improved reproducibility of results.

The erythrocyte sedimentation rate (ESR) is measured in an enclosed system, ensuring that the user does not come into contact with patients' blood. All ESR-readers are equipped with "permanent access". This means that tubes can be inserted into the measuring channels randomly and at any time, since each tube is analysed independently.

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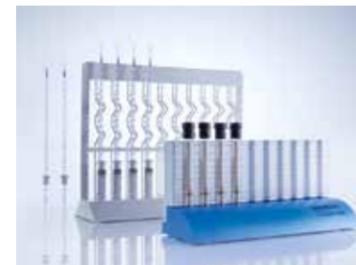




Automatic ESR System and Accessories

Three different sized models of ESR instruments are offered. Readers with 100 channels are ideal for middle to large laboratories. The 20 and the 10 channel readers were designed for small laboratories or doctors' offices. All **VACUETTE®** ESR instruments operate in accordance with the Westergren method.

| Item No. | Description | Packaging | |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|
| | | Inner | Outer |
| Sed Rate Screeners | | | |
| 836580 | Sed Rate Screener 100/II (SRS 100/II) including Software (G2S140BO, Vers. 1.4) automatic ESR reader with integrated printer (for 100 tubes) | 1 pc. | 1 pc. |
| 836587 | Sed Rate Screener 20/II (SRS 20/II) including Software (G2P140BO, Vers. 1.4) automatic ESR reader with integrated printer (for 20 tubes) | 1 pc. | 1 pc. |
| Sed Rate Timer | | | |
| 836592 | Sed Rate Timer 10/II (SRT 10/II) including Software (G2M110BO, Vers. 1.1) automatic ESR reader (for 10 tubes) | 1 pc. | 1 pc. |
| VACUETTE® MultiMixer | | | |
| 836577 | VACUETTE® MultiMixer for VACUETTE® Tubes (Racks not included) | 1 pc. | 1 pc. |
| Accessories | | | |
| 836582 | Thermal printer for SRT 10/II, SRS 20/II and SRS 100/II | 1 pc. | 1 pc. |
| 836283 | Barcode scanner for SRS 20/II and SRS 100/II | 1 pc. | 1 pc. |
| 836585 | Thermal paper roll for printer (836582) and integrated printers in 836580 & 836587 | 1 pc. | 1 pc. |
| 836588 | ESR Control Unit for SRT 10/II, SRS 20/II and SRS 100/II | 1 pc. | 1 pc. |
| 836595 | ACCUSED PLUS QC Control Blood for SRS 2x normal + 2x abnormal = 4 bottles | | |
| 836578 | Rack for VACUETTE® 20-Pos. MultiMixer for 9 mm VACUETTE® Tubes | 1 pc. | 1 pc. |
| 836579 | Rack for VACUETTE® 20-Pos. MultiMixer for 13 mm VACUETTE® Tubes | 1 pc. | 1 pc. |



Manual ESR System and Accessories

Two versions of the **VACUETTE®** Manual ESR System are available. The open sedimentation system consists of an ESR Tube made of PET plastic, ESR Pipette with graduated adapter and ESR Rack with graduation. The closed system consists of an ESR rack with graduation and a special ESR plastic tube with either a 2.75 or 1.5 ml volume.

| Item No. | Description | Packaging | |
|-------------------------------------------|--------------------------------------------------------|-----------|----------|
| | | Inner | Outer |
| ESR Pipette with graduated adapter | | | |
| 727111 | ESR Pipette with adapter, graduated, 200mm, for 454073 | 200 pcs. | 800 pcs. |
| ESR Racks | | | |
| 836072 | ESR Rack without graduation for 454073 | 1 pc. | 5 pcs. |
| 836075 | ESR Rack with graduation for 729070 | 1 pc. | 8 pcs. |
| 836077 | ESR Rack with graduation for 729073 | 1 pc. | 8 pcs. |



ESR Tubes

The erythrocyte sedimentation rate (ESR) can be used as a non-specific search technique for inflammatory reactions and observing their development. **VACUETTE®** ESR tubes are used for determination of the ESR. ESR tubes with 1.5ml, 2ml and 2.75ml fill volume are made out of polypropylene plastic.

Tubes are packed 50 pcs per rack and 800 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description | |
|----------------------------------------------------------------------|-----------|------------|-------------|-----------|-------------------------------------------|-----------|
| 4NC ESR sodium citrate 3.2%, PET - PREMIUM (Safety Twist Cap) | | | | | | |
| 454073 | 2ml | black | black | 13 x 75 | 4NC ESR sodium citrate, PET | 1200 pcs. |
| 4NC ESR sodium citrate 3.2%, PP (Polypropylene) | | | | | | |
| 729073 | 1.5ml | black | --- | 9 x 120 | 4NC ESR sodium citrate, PP, closed system | 800 pcs. |
| 729070 | 2.75ml | black | --- | 9 x 120 | 4NC ESR sodium citrate, PP, closed system | 800 pcs. |

VACUETTE® Urine Collection System

Urine, like blood, is a potentially infectious sample material. The **VACUETTE®** Urine Collection System enables a closed, sterile urine collection that in turn will maintain the sample quality and guarantee the efficiency of the testing procedure. Tubes are available with or without preservatives.

The preservative helps stabilise the sample, which is important when the sample cannot be analysed within 2 hours of collection. Tubes can be ordered with either a round base or a conical base. Round-based tubes are used for chemical urine tests, whilst tubes with a conical base are used for microscopic examinations of urine sedimentation.

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VACUETTE® Urine Tubes

VACUETTE® Urine Tubes are used as collection, transportation and/or analysis vessels. The VACUETTE® Urine Tubes are sterile, leak-proof and virtually unbreakable. They are available as round or conical based. Furthermore, they are offered with or without preservative. Tubes with preservative should be inverted 6-8 times following collection in order to achieve homogenous mixing.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

| Item No. | Nom. Vol. | Cap Colour | Ring Colour | Tube Size | Description |
|---------------------------------------------------------|-----------|------------|-------------|-----------|--------------------------------------|
| Z Urine No Additive - PREMIUM (Safety Twist Cap) | | | | | |
| 456007 | 6ml | yellow | yellow | 13 x 100 | Z Urine No Additive, Round Base |
| Z Urine No Additive - Non-ridged (pull cap) | | | | | |
| 456065 | 6ml | yellow | yellow | 13 x 100 | Z Urine No Additive, Round Base |
| 455227 | 7ml | yellow | yellow | 16 x 100 | Z Urine No Additive, Round Base |
| 455007 | 10ml | yellow | yellow | 16 x 100 | Z Urine No Additive, Round Base |
| 455028 | 9ml | yellow | yellow | 16 x 100 | Z Urine No Additive, Conical Base |
| Urine CCM - Non-ridged (pull cap) | | | | | |
| 454486 | 4ml | yellow | black | 13 x 75 | Urine CCM, Round Base |
| 456284 | 6ml | yellow | black | 13 x 100 | Urine CCM, Round Base |
| 455243 | 9ml | yellow | black | 16 x 100 | Urine CCM, Conical Base |
| 455052 | 10ml | yellow | black | 16 x 100 | Urine CCM, Round Base |
| 485511 | 10ml | yellow | black | 16 x 100 | Urine CCM, Barcode Label, Round Base |



VACUETTE® Urine Accessories

The VACUETTE® Urine Collection System product line offers VACUETTE® Urine Tubes, assorted Urine Beakers, Urine Transfer Devices and a 24 hr Urine Collection Container.

| Item No. | Name | Nom. Vol. | Description | Packaging | |
|----------------------------------------------------------------|------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------|-----------|----------|
| | | | | Inner | Outer |
| Urine Sets (Urine Tube + Urine Transfer Device) | | | | | |
| 453070 | Urine Set (16 x 100) | 9ml | VACUETTE® Urine Tube + Urine Transfer Device (455028+450751), single-packed, Conical Base | 1 set | 300 sets |
| Urine CCM Set (Urine CCM Tubes + Urine Transfer Device) | | | | | |
| 453031 | Urine CCM Set (13 x 75) | 4ml | VACUETTE® Urine CCM Tube + Urine Transfer Device (454486+450751), single-packed, Round Base | 1 set | 300 sets |
| 453033 | Urine CCM Set (13 x 100) | 6ml | VACUETTE® Urine CCM Tube + Urine Transfer Device (456284+450751), single-packed, Round Base | 1 set | 300 sets |
| 453032 | Urine CCM Set (16 x 100) | 9ml | VACUETTE® Urine CCM Tube + Urine Transfer Device (455243+450751), single-packed, Conical Base | 1 set | 300 sets |
| 453034 | Urine CCM Set (16 x 100) | 10ml | VACUETTE® Urine CCM Tube + Urine Transfer Device (455052+450751), single-packed, Round Base | 1 set | 300 sets |
| Urine Beakers (sterile) | | | | | |
| 724320 | Urine Beaker | 100ml | yellow lid, with ring screw closure, bulk-packed | --- | 300 pcs. |
| 724300 | Urine Beaker | 100ml | with Safety Stopper, white lid, single-packed | 1 pc. | 100 pcs. |
| 724310 | Urine Beaker | 100ml | with integrated Transfer Device, yellow lid, single-packed | 1 pc. | 200 pcs. |
| 724311 | Urine Beaker | 100ml | with integrated Transfer Device, yellow lid, 5 pcs./bag | 5 pc. | 200 pcs. |
| 724312 | Urine Beaker | 100ml | with integrated Transfer Device, yellow lid, bulk-packed, non-sterile | --- | 300 pcs. |
| 24h Urine Containers | | | | | |
| 724315 | 24h urine container | 2.7L | brown, with screw closure | --- | 34 pcs. |
| 724316 | VACUETTE® URI-PLUS | 3L | 24h urine container with integrated transfer device | --- | 36 pcs. |
| Urine Transfer Devices | | | | | |
| 450251 | Urine Transfer Device, short | | | 50 pcs. | 600 pcs. |
| 450252 | Urine Transfer Device, long | | | 50 pcs. | 600 pcs. |
| 450253 | Urine Transfer Device, short, sterile, single-packed | | | 50 pcs. | 300 pcs. |

Greiner Bio-One Saliva Collection and Quantification System

The easy collection method and permanent availability make saliva an interesting alternative to other specimen materials such as urine or blood. Saliva is particularly suitable, if samples are required quickly, efficiently and non-invasively. On the basis of a liquid saliva extraction solution, Greiner Bio-One has developed a collection and quantification system, that is suitable for a broad range of applications, ranging from therapeutic drug monitoring to hormone analytics to drug screening.

The system consists of various components: A saliva extraction solution for the collection, a collection beaker, two evacuated tubes for the laboratory tests and the Saliva Quantification Kit for photometric determination of saliva calibrators.

- Greiner Bio-One Saliva Collection System - Self-collection 66
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- Greiner Bio-One Saliva Quantification Kit 67





Greiner Bio-One Saliva Collection System - Self-collection

Self-collection means that the test person can do the saliva collection his/herself without the assistance of any medical personnel. The system as well as the corresponding instructions for use is tested and certified for self-collection.

| Item No. | Description | Packaging | |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------|---------|
| | | Inner | Outer |
| Greiner Bio-One Saliva Collection System - Self-collection | | | |
| 881001 | GBO Saliva Collection System single-packed, for self-collection, consisting of: 881210, 881113 and 881112 | 1 pc. | 24 pcs. |



Greiner Bio-One Saliva Collection System - For professional use

Doctors or medical personnel additionally have the option of purchasing the following single products to create their own setting for saliva collection.

| Item No. | Description | Packaging | |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------|-----------|
| | | Inner | Outer |
| Greiner Bio-One Saliva Collection System - For professional use | | | |
| 881002 | GBO Saliva Collection System bulk-packed, 50 sets, for professional use, consisting of: 881112, 881210 and 881113 | 1 carton | 50 pcs. |
| 881112 | (1) GBO Saliva Extraction Solution 4ml, pH 4.2 13x75 royal blue cap-royal blue ring, non-ridged | 24 racks | 1200 pcs. |
| 881210 | (2) GBO Saliva Collection Beaker with integrated transfer device | 1 carton | 200 pcs. |
| 881113 | (3) GBO Saliva Transfer Tube 3.5ml 13x75 orange cap-orange ring, PREMIUM, for professional use | 24 racks | 1200 pcs. |
| 881117 | (3) GBO Saliva Transfer Tube 3.5ml <u>without</u> Sleeves 13x75 orange cap-orange ring, PREMIUM, for professional use | 24 racks | 1200 pcs. |



Greiner Bio-One Saliva Quantification Kit

With the Saliva Quantification Kit, the saliva quantity is photometrically determined in the saliva extraction solution. The internal standard in the sample is calculated using saliva calibrators and back calculated to the saliva quantity.

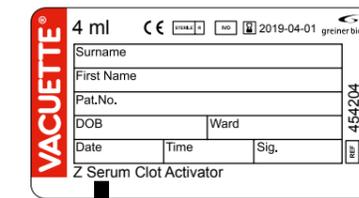
| Item No. | Description | Packaging | |
|--------------------------------------------------|-------------------------------|-----------|-------|
| | | Inner | Outer |
| Greiner Bio-One Saliva Quantification Kit | | | |
| 881010 | GBO Saliva Quantification Kit | --- | 1 pc. |

Labelling of VACUETTE® Products

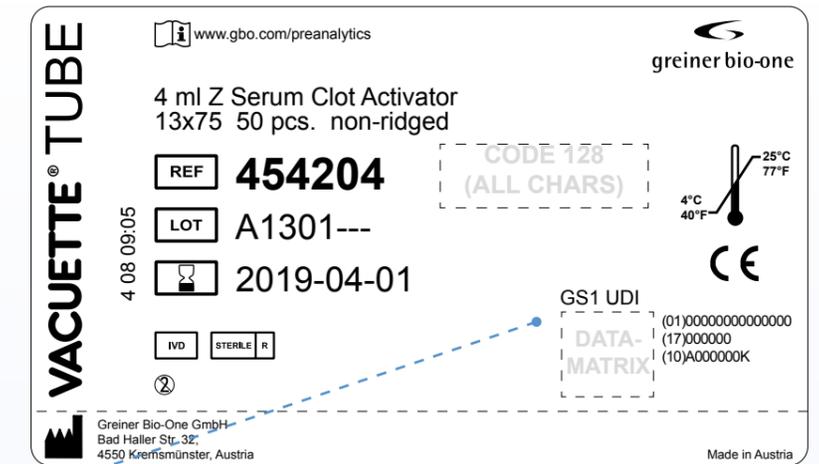
The table below provides a selection of the symbols used on our labelling, with an explanation in line with ÖNORM EN 980:2008.

| Symbol | Description | Letter code | Additive |
|--------|------------------------------------------------------------------|-------------|-------------------------------------|
| | Symbol for "Do Not Reuse" | Z | None / Clot Activator |
| | Symbol for "Use By" | LH | Lithium Heparin |
| | Symbol for "Batch Code" | NH | Sodium Heparin |
| | Symbol for "Catalogue Number" | AH | Ammonium Heparin |
| | Symbol for "Date of Manufacture" | K2E | EDTA Dipotassium Salt |
| | Symbol for "Manufacturer" | K3E | EDTA Tripotassium Salt |
| | Symbol for "Sterilized Using Ethylene Oxide" | 9NC | Coagulation Trisodium Citrate 9:1 |
| | Symbol for "Sterilized Using Irradiation" | 4NC | Coagulation Trisodium Citrate 4:1 |
| | CE Mark | FX | Sodium Fluoride / Potassium Oxalate |
| | Symbol for "In Vitro Diagnostic Medical Device" | FE | Sodium Fluoride / EDTA |
| | Symbol for "Consult Instructions for Use" | FH | Sodium Fluoride / Heparin |
| | Symbol for "Temperature Limitation" | FC | Fluoride, citric acid |
| | Symbol for "Authorised Representative in the European Community" | | |
| | Symbol for "Contains Phthalates" | | |
| | Symbol for "Contains or Presence of Natural Rubber Latex" | | |

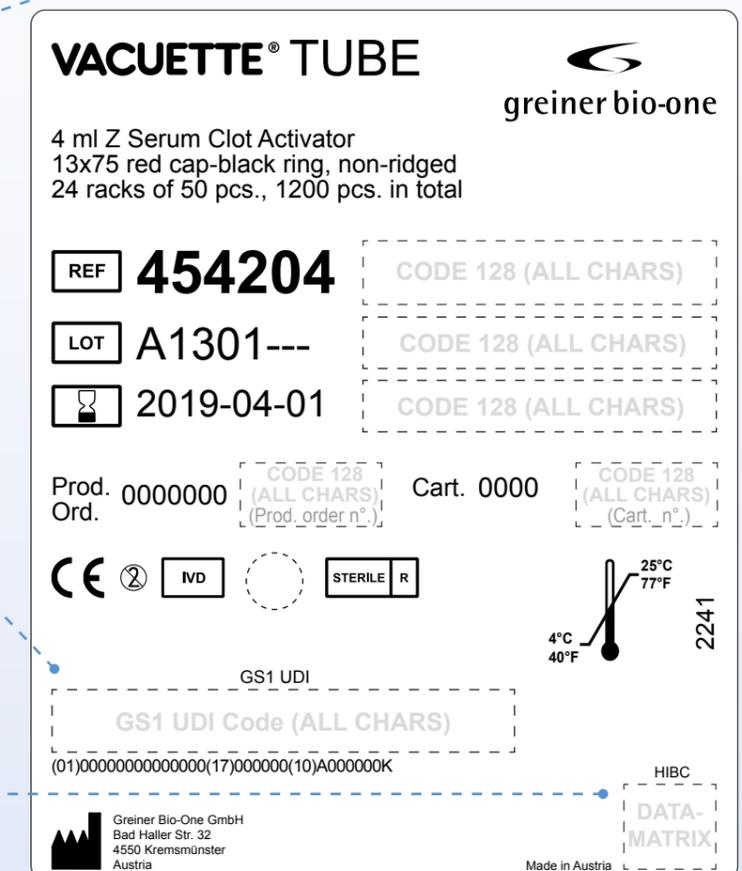
1 Tube Label



2 Rack Label



3 Carton Label



GS1 UDI Code:

This is in GS1 linear form on the case labels and in GS1 datamatrix form on the racks. Both contain information on the GTIN as well as the expiry date and lot number.

(01) indicates the GTIN
(17) the expiry date in format YYYY-MM-DD
(10) indicates the lot number

HIBC Code:

With just one swipe over this code, the item number, lot number, expiry date and packaging unit can be read – a significant benefit for the logistics chain.



Barcode Tubes

The new generation for increased safety and efficiency

VACUETTE® Barcode Tubes

... minimize the risk of mixing up sample tubes, thereby increasing safety of diagnostic processes. By reducing the risk of mix-ups, working procedures in the laboratory are streamlined. This is a contribution to both increased

efficiency as well as to reduced costs. When used with the appropriate software, **VACUETTE®** Barcode Tubes provide the basis for automatically generating and processing information from the preanalytical process.



No risk of labelling over the viewing space, ensuring optimal quality control

Fast and easy retrieval from archives thanks to the optimized representation of the sample ID

Special printing process to prevent smearing due to, for example, disinfectants

Security for patient data provided by encrypted sample ID

Code 128 as recommended by ISO and CLSI for optimal readability on lab instruments

Standardized, non-repeating sample-ID

Guaranteed quality 4(A) or 3(B) in compliance with ANSI/CEN

Please note that there is a lead time of 3 months for barcode tube orders.

GeT perfect with Greiner eHealth Technologies



Greiner eHealth Technologies (GeT) offers a process-optimized system with optimally coordinated products, which can be individually adapted to suit your needs. The GeT complete solutions help to make your workflows even safer and more efficient.

The middleware concept from Greiner eHealth Technologies deals with pre and postanalytical processes and offers increased security for patients, more efficient workflows, a higher level of standardisation, and transparency at all stages. We will support you through a process of change that is unique on the market, moving successfully from 'GeT Perfect' to 'Be Perfect'.

GeT efficient

Even with increasing numbers of samples, our system ensures that work is straightforward and supported, and the quality is enhanced. Whether you choose our complete solution or just one of our modules, we will assist you on the path to your ideal procedure.



For more information visit the following website:
www.gbo.com/get

Products with Highest Demands in Quality

Product quality is of highest priority for Greiner Bio-One and to be sure of this, a thorough and multi-level quality management system has been developed.

Quality Standards

Highly qualified and well-trained employees put the quality standards into practice. High-tech production technology as well as first-rate control and inspection devices ensure the highest quality standards.

Greiner Bio-One is certified according to ISO 9001 and EN ISO 13485:2012/AC.

The products also bear the CE mark.

Furthermore, every item that is distributed in the United States is cleared by the F.D.A., the U.S. Food and Drug Administration.



Quality

Quality controls and inspections are carried out by the quality control department as well as production personnel in the form of in-process checks. To ensure that these checks are carried out professionally, staff are trained regularly.

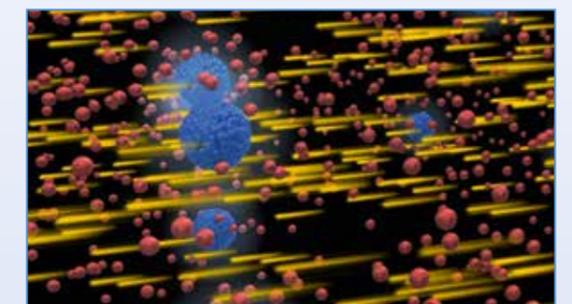
The process consists of various steps.

- In-process production controls
- Laboratory testing
- Sterility controls

Sterilisation

Sterilisation is carried out according to the latest standard of technology. Accelerated electron rays permeate the packaged products, killing off microorganisms completely. Sterilisation by electron rays is a validated and certified procedure. The process is extremely reliable, does not affect the product and does not leave any residue.

To certify that a product has been through the sterilisation process, a red indicator is positioned on the label of the outer carton.





Production Locations

One of Greiner Bio-One's core competences is innovation. Over the course of the years, the company has become established as leader for knowledge and expertise, consistently building on this reputation. The production techniques are constantly subject to optimisation in cooperation with qualified partner companies, ensuring that Greiner Bio-One remains world technology leader in this segment. Greiner Bio-One products are manufactured at high-tech production facilities to the highest quality standards in six locations on four continents, providing short delivery times all over the world.

Greiner Bio-One Austria

The headquarters of Greiner Bio-One International GmbH are in Kremsmünster, Austria, where **VACUETTE®** blood collection tubes, urine tubes and accessories for specimen collection are manufactured.



Greiner Bio-One North America Inc.

In order to supply the North American market directly, a production location was built in Monroe, North Carolina. Here, more than 290 highly trained employees manufacture **VACUETTE®** products to the usual exceptional standard.



Greiner Bio-One Brazil

For distribution on the South American market, a production facility was built in Americana, Brazil, in 2004, for the manufacture of **VACUETTE®** blood collection tubes.



Greiner Bio-One Kft, Hungary

The fourth production facility is located in Mosonmagyaróvár, Hungary. Accessories for blood and urine collection are manufactured here.



Greiner Bio-One Thailand Ltd.

Since October 2008 Asia is supplied from our new production location in Amata Nakorn, Thailand.



Greiner Bio-One GmbH, Rainbach, Austria

In spring 2009, an extremely modern production facility with a cleanroom for **VACUETTE®** safety products was opened in Rainbach, Austria.

At Your Doorstep, Across The World

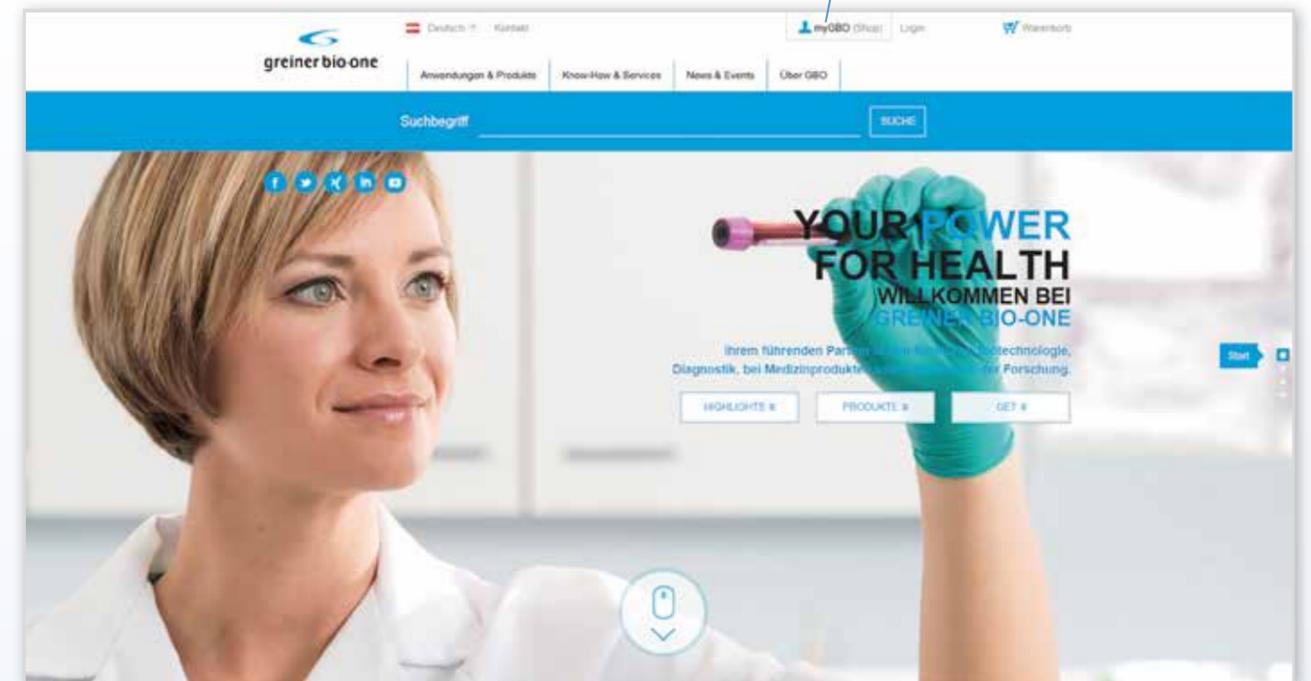
Our customers' wishes are the at the core of our actions. With our broad product range and multitude of application areas, our focus is on market requirements when developing innovative products and competent services.

With more than 1800 employees at seven production locations on four continents, as well as 23 subsidiaries in addition to our international distribution partners, we are represented directly in more than 100 countries. We have specialists working in sales, who have comprehensive expert competence. This ensures on-site customer care, quick deliveries and uncomplicated service. Furthermore, an online shop, a technical hotline as well as an FAQ databank are available to our customers so that product-related questions can be answered quickly and competently.

Greiner Bio-One Web Portal

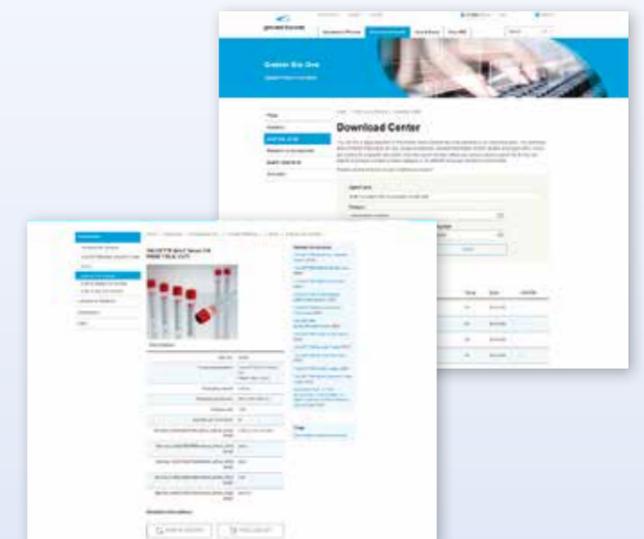
You can find additional information on all Greiner Bio-One product groups online. The new GBO portal combines website and webshop in one application, which has the advantage of everything being available at one address:

www.gbo.com



Our website offers the following advantages:

- The download menu is now divided into product groups, with downloads of flyers, brochures, etc. available in a range of languages.
- "Frequently asked questions" for the various products are answered in the FAQs section.
- The latest developments are shown in brief and with an eye-catching layout in the Marketing Highlights.



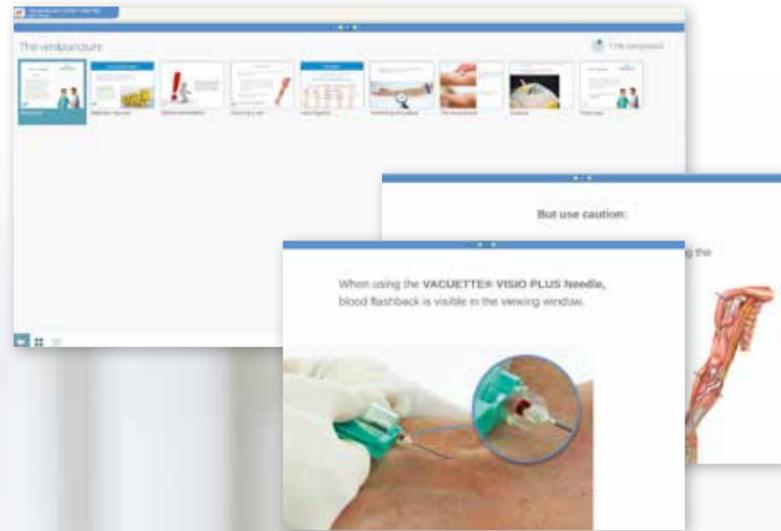
Greiner Bio-One E-Learning

The long-term goal of our new e-learning platform **GBO Compass** is to provide the users of the **VACUETTE®** products special knowledge for correct usage.

Entry is via the address:
<https://compass.gbo.com>

To get started you need a password, which you can request from us. For easy and uncomplicated registration, please contact:

compass@gbo.com



With **GBO Compass**, we appeal to all people who work mainly in specimen collection. The multimedia educational content is available 24/7, regardless of time and location.

The purpose is to avoid pre-analytical errors, increasing the quality of samples, and thus to achieve process optimization. Ultimately, this should lead to time and cost savings in daily routine work.

Only an optimal use of our products, together with the necessary expertise can guarantee a long-term customer satisfaction.

Further Education and Training Material

The preanalytical phase includes all processes from preparing the patient for sample collection right up to specimen analysis in the laboratory. Various people are involved in the process and they need the appropriate expert knowledge in order to prevent any possible errors.

To support our customers in applying **VACUETTE®** and **MiniCollect®** products for sample collection, we have on offer a broad range of training materials.

Handling brochures illustrate the individual working steps and give valuable tips on avoiding mistakes:



In addition, **VACUETTE®** handling videos are available on our Greiner Bio-One YouTube channel under the following link:

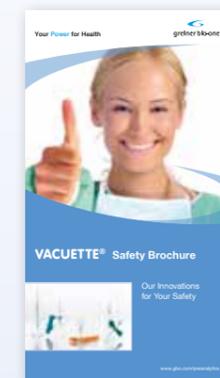
<https://www.youtube.com/user/GBOMKTG/videos>



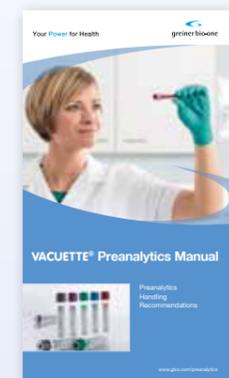
980063
VACUETTE®
Blood Collection
Techniques



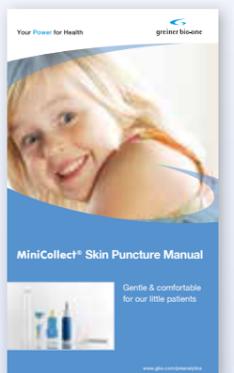
980102
VACUETTE®
Handling Recommendations
for Blood Collection



980124
VACUETTE®
Safety Brochure



980183
VACUETTE®
Preanalytics Manual



980132
MiniCollect® Skin
Puncture Manual

The Green Spirit



In times when public awareness of ecological issues is on the increase regarding, for example, greenhouse gases and global warming, the company's social-political responsibility also increases. As a medical technology company that manufactures plastics, Greiner Bio-One has risen to this challenge, and in the course of the comprehensive ecology project "The Green Spirit", has directed all company processes towards this aim. The manufacturing of Greiner Bio-One products takes place in consideration of ecological aspects.

Production machines are powered by clean, renewable sources of energy. Fossil fuels like gas or oil are not used on our machines. Due to the special recycling construction, the machines function on a material saving basis and a state-of-the-art heat recovery system helps save additional energy.

VACUETTE® line products are delivered in non-bleached outer cartons. The cartons consist of 100% recycled material. Our **VACUETTE®** specimen collection tubes are provided in plastic racks of 50 pieces each. These racks are manufactured from polystyrene sheets, which is recycled material too.

For more information please have a look at our brochure "The Green Spirit - Environment protection and careful resource planning" under www.gbo.com.

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| 453031 | Urine CCM Set (VACUETTE® Urine CCM Tube + Urine Transfer Device (454486+450751), single-packed, Round Base, 4 ml, 13x75) | Urine Collection System | 63 |
| 453032 | Urine CCM Set (VACUETTE® Urine CCM Tube + Urine Transfer Device (455243+450751), single-packed, Conical Base, 9 ml, 16x100) | Urine Collection System | 63 |
| 453033 | Urine CCM Set (VACUETTE® Urine CCM Tube + Urine Transfer Device (456284+450751), single-packed, Round Base, 6 ml, 13x100) | Urine Collection System | 63 |
| 453034 | Urine CCM Set (VACUETTE® Urine CCM Tube + Urine Transfer Device (455052+450751), single-packed, Round Base, 10 ml, 16x100) | Urine Collection System | 63 |
| 453070 | Urine Set (VACUETTE® Urine Tube + Urine Transfer Device (455028+450751), single-packed, Conical Base, 9 ml, 16x100) | Urine Collection System | 63 |
| 454001 | VACUETTE® TUBE 4 ml Z No Additive, 13x75 white cap-black ring, PREMIUM | Blood Collection Tubes | 19 |
| 454008 | VACUETTE® TUBE 3.5 ml LH Lithium Heparin Separator, 13x75 green cap-yellow ring, non-ridged | Blood Collection Tubes | 17 |
| 454020 | VACUETTE® TUBE 3 ml K2E K2EDTA, 13x75 lavender cap-black ring, PREMIUM | Blood Collection Tubes | 18 |
| 454021 | VACUETTE® TUBE 4 ml K3E K3EDTA, 13x75 lavender cap-black ring, non-ridged | Blood Collection Tubes | 18 |
| 454023 | VACUETTE® TUBE 4 ml K2E K2EDTA, 13x75 lavender cap-black ring, PREMIUM | Blood Collection Tubes | 18 |
| 454024 | VACUETTE® TUBE 2 ml K2E K2EDTA, 13x75 lavender cap-white ring, PREMIUM | Blood Collection Tubes | 18/24 |
| 454027 | VACUETTE® TUBE 4.5 ml Z Serum Clot Activator, 13x75 red cap-black ring, PREMIUM | Blood Collection Tubes | 15 |
| 454028 | VACUETTE® TUBE 2.5 ml Z Serum Separator Clot Activator, 13x75 red cap-yellow ring, PREMIUM | Blood Collection Tubes | 15 |
| 454029 | VACUETTE® TUBE 4 ml LH Lithium Heparin, 13x75 green cap-black ring, non-ridged | Blood Collection Tubes | 16 |
| 454030 | VACUETTE® TUBE 4 ml NH Sodium Heparin, 13x75 green cap-green ring, non-ridged | Blood Collection Tubes | 17 |
| 454033 | VACUETTE® TUBE 4 ml FE Sodium Fluoride / K3E K3EDTA, 13x75 grey cap-black ring, non-ridged | Blood Collection Tubes | 20 |
| 454034 | VACUETTE® TUBE 1 ml K3E K3EDTA, 13x75 lavender cap-white ring, PREMIUM | Blood Collection Tubes | 18/24 |
| 454036 | VACUETTE® TUBE 4 ml K3E K3EDTA, 13x75 lavender cap-black ring, PREMIUM | Blood Collection Tubes | 18 |
| 454039 | VACUETTE® TUBE 4.5 ml K3E K3EDTA, 13x75 lavender cap-black ring, PREMIUM | Blood Collection Tubes | 18 |
| 454045 | VACUETTE® TUBE 3.5 ml Z No Additive, 13x75 white cap-black ring, non-ridged | Blood Collection Tubes | 19 |
| 454046 | VACUETTE® TUBE 2.5 ml LH Lithium Heparin Separator, 13x75 green cap-yellow ring, PREMIUM | Blood Collection Tubes | 17 |
| 454047 | VACUETTE® TUBE 2 ml K2E K2EDTA, 13x75 lavender cap-white ring, non-ridged | Blood Collection Tubes | 18/24 |
| 454049 | VACUETTE® TUBE 4.5 ml LH Lithium Heparin, 13x75 green cap-black ring, PREMIUM | Blood Collection Tubes | 16 |
| 454051 | VACUETTE® TUBE 4 ml NH Sodium Heparin, 13x75 green cap-green ring, PREMIUM | Blood Collection Tubes | 17 |
| 454052 | VACUETTE® TUBE 1 ml K2E K2EDTA, 13x75 lavender cap-white ring, non-ridged | Blood Collection Tubes | 24 |
| 454056 | VACUETTE® TUBE 4 ml LH Lithium Heparin, 13x75 green cap-black ring, transparent label, non-ridged | Blood Collection Tubes | 16 |
| 454059 | VACUETTE® TUBE 3.5 ml K2E K2EDTA Separator, 13x75 lavender cap-yellow ring, non-ridged | Blood Collection Tubes | 17 |
| 454061 | VACUETTE® TUBE 2 ml FX Sodium Fluoride / Potassium Oxalate, 13x75 grey cap-white ring, PREMIUM | Blood Collection Tubes | 20/24 |
| 454062 | VACUETTE® TUBE 4 ml FX Sodium Fluoride / Potassium Oxalate, 13x75 grey cap-black ring, PREMIUM | Blood Collection Tubes | 20 |

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| 454071 | VACUETTE® TUBE 3.5 ml Z Serum Separator Clot Activator, 13x75 red cap-yellow ring, PREMIUM | Blood Collection Tubes | 15 |
| 454073 | VACUETTE® TUBE 2 ml ESR sodium citrate 3.2%, 13x75 black cap-black ring, PET, PREMIUM | Blood Collection Tubes | 22/59 |
| 454078 | VACUETTE® TUBE 3.5 ml Z Serum Separator Clot Activator, 13x75 red cap-yellow ring, non-ridged | Blood Collection Tubes | 16 |
| 454081 | VACUETTE® TUBE 1 ml LH Lithium Heparin, 13x75 green cap-white ring, PREMIUM | Blood Collection Tubes | 24 |
| 454082 | VACUETTE® TUBE 3 ml LH Lithium Heparin, 13x75 green cap-black ring, PREMIUM | Blood Collection Tubes | 16 |
| 454083 | VACUETTE® TUBE 3.5 ml LH Lithium Heparin Separator, 13x75 green cap-yellow ring, PREMIUM | Blood Collection Tubes | 17 |
| 454084 | VACUETTE® TUBE 4 ml LH Lithium Heparin, 13x75 green cap-black ring, PREMIUM | Blood Collection Tubes | 16 |
| 454085 | VACUETTE® TUBE 2 ml Sodium Fluoride / K3EDTA, 13x75 grey cap-white ring, PREMIUM | Blood Collection Tubes | 20/24 |
| 454086 | VACUETTE® TUBE 3 ml K3E K3EDTA, 13x75 lavender cap-black ring, PREMIUM | Blood Collection Tubes | 18 |
| 454087 | VACUETTE® TUBE 2 ml K3E K3EDTA, 13x75 lavender cap-white ring, PREMIUM | Blood Collection Tubes | 18/24 |
| 454088 | VACUETTE® TUBE 2 ml Z No Additive, 13x75 white cap-white ring, PREMIUM | Blood Collection Tubes | 19/24 |
| 454089 | VACUETTE® TUBE 2 ml LH Lithium Heparin, 13x75 green cap-white ring, PREMIUM | Blood Collection Tubes | 16/24 |
| 454091 | VACUETTE® TUBE 4 ml FE Sodium Fluoride / K3EDTA, 13x75 grey cap-black ring, PREMIUM | Blood Collection Tubes | 20 |
| 454092 | VACUETTE® TUBE 4 ml Z Serum Clot Activator, 13x75 red cap-black ring, PREMIUM | Blood Collection Tubes | 15 |
| 454094 | VACUETTE® TUBE 3 ml FX Sodium Fluoride / Potassium Oxalate, 13x75 grey cap-black ring, PREMIUM | Blood Collection Tubes | 20 |
| 454095 | VACUETTE® TUBE 3 ml Z Serum Clot Activator, 13x75 red cap-black ring, PREMIUM | Blood Collection Tubes | 15 |
| 454096 | VACUETTE® TUBE 2 ml Z Serum Clot Activator, 13x75 red cap-white ring, PREMIUM | Blood Collection Tubes | 15/24 |
| 454098 | VACUETTE® TUBE 1 ml Z Serum Clot Activator, 13x75 red cap-white ring, PREMIUM | Blood Collection Tubes | 15/24 |
| 454204 | VACUETTE® TUBE 4 ml Z Serum Clot Activator, 13x75 red cap-black ring, non-ridged | Blood Collection Tubes | 15 |
| 454209 | VACUETTE® TUBE 4 ml K2E K2EDTA, 13x75 lavender cap-black ring, non-ridged | Blood Collection Tubes | 18 |
| 454214 | VACUETTE® TUBE 3.5 ml Z Serum Separator Clot Activator, 13x75 gold cap-gold ring, PREMIUM | Blood Collection Tubes | 15 |
| 454217 | VACUETTE® TUBE 3 ml K3E K3EDTA, 13x75 lavender cap-black ring, non-ridged | Blood Collection Tubes | 18 |
| 454218 | VACUETTE® TUBE 2 ml FH Sodium Fluoride / Sodium Heparin, 13x75 grey cap-white ring, PREMIUM | Blood Collection Tubes | 20/24 |
| 454221 | VACUETTE® TUBE 2 ml FE Sodium Fluoride / K3EDTA, 13x75 grey cap-white ring, non-ridged | Blood Collection Tubes | 20/24 |
| 454222 | VACUETTE® TUBE 2 ml K3E K3EDTA, 13x75 lavender cap-white ring, non-ridged | Blood Collection Tubes | 18/24 |
| 454223 | VACUETTE® TUBE 4.5 ml K3E K3EDTA, 13x75 lavender cap-black ring, non-ridged | Blood Collection Tubes | 18 |
| 454225 | VACUETTE® TUBE 3.5 ml Z Serum Separator Clot Activator, 13x75 red cap-yellow ring, non-ridged | Blood Collection Tubes | 16 |
| 454228 | VACUETTE® TUBE 3.5 ml Z Serum Separator Clot Activator, 13x75 gold cap-gold ring, black label, non-ridged | Blood Collection Tubes | 16 |
| 454235 | VACUETTE® TUBE 3.5 ml K2E K2EDTA Separator, 13x75 lavender cap-yellow ring, PREMIUM | Blood Collection Tubes | 17 |
| 454236 | VACUETTE® TUBE 2 ml Z Serum Clot Activator, 13x75 red cap-white ring, non-ridged | Blood Collection Tubes | 15/24 |
| 454237 | VACUETTE® TUBE 2 ml LH Lithium Heparin, 13x75 green cap-white ring, non-ridged | Blood Collection Tubes | 16/24 |
| 454238 | VACUETTE® TUBE 2 ml FX Sodium Fluoride / Potassium Oxalate, 13x75 grey cap-white ring, non-ridged | Blood Collection Tubes | 20/24 |
| 454241 | VACUETTE® TUBE 3 ml Z No Additive, 13x75 white cap-black ring, non-ridged | Blood Collection Tubes | 19 |
| 454243 | VACUETTE® TUBE 2.5 ml Z Serum Separator Clot Activator, 13x75 red cap-white ring, non-ridged | Blood Collection Tubes | 16 |
| 454244 | VACUETTE® TUBE 3 ml LH Lithium Heparin, 13x75 green cap-black ring, non-ridged | Blood Collection Tubes | 16 |
| 454246 | VACUETTE® TUBE 3 ml K2E K2EDTA, 13x75 lavender cap-black ring, non-ridged | Blood Collection Tubes | 18 |
| 454247 | VACUETTE® TUBE 3 ml LH Lithium Heparin Separator, 13x75 green cap-yellow ring, non-ridged | Blood Collection Tubes | 17 |
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| 454287 | VACUETTE® TUBE 3 ml K3E K3EDTA, 13x75 lavender cap-black ring, transparent label, non-ridged | Blood Collection Tubes | 18 |
| 454297 | VACUETTE® TUBE 4 ml FX Sodium Fluoride / Potassium Oxalate, 13x75 grey cap-black ring, non-ridged | Blood Collection Tubes | 20 |
| 454298 | VACUETTE® TUBE 4,5 ml Z Serum Clot Activator, 13x75 red cap-black ring, non-ridged | Blood Collection Tubes | 15 |
| 454320 | VACUETTE® TUBE 1 ml 9NC Coagulation sodium citrate 3.2%, 13x75 blue cap-white ring, sandwich tube, PREMIUM | Blood Collection Tubes | 14/24 |
| 454321 | VACUETTE® TUBE 2 ml 9NC Coagulation sodium citrate 3.2%, 13x75 blue cap-white ring, sandwich tube, PREMIUM | Blood Collection Tubes | 14/24 |
| 454322 | VACUETTE® TUBE 2 ml 9NC Coagulation sodium citrate 3.2%, 13x75 blue cap-white ring, sandwich tube, non-ridged | Blood Collection Tubes | 14/24 |
| 454325 | VACUETTE® TUBE 3 ml 9NC Coagulation sodium citrate 3.2%, 13x75 blue cap-black ring, sandwich tube, PREMIUM | Blood Collection Tubes | 14 |
| 454327 | VACUETTE® TUBE 3.5 ml 9NC Coagulation sodium citrate 3.2%, 13x75 blue cap-black ring, sandwich tube, PREMIUM | Blood Collection Tubes | 14 |
| 454332 | VACUETTE® TUBE 3.5 ml 9NC Coagulation sodium citrate 3.2%, 13x75 blue cap-black ring, sandwich tube, non-ridged | Blood Collection Tubes | 14 |
| 454334 | VACUETTE® TUBE 3 ml 9NC Coagulation sodium citrate 3.2%, 13x75 blue cap-black ring, sandwich tube, non-ridged | Blood Collection Tubes | 14 |
| 454360 | VACUETTE® TUBE 2 ml 9NC Coagulation sodium citrate 3.2%, 13x75 blue cap-white ring, sandwich tube, transparent label, non-ridged | Blood Collection Tubes | 14/24 |
| 454381 | VACUETTE® TUBE 2 ml 9NC Coagulation sodium citrate 3.8%, 13x75 blue cap-white ring, sandwich tube, PREMIUM | Blood Collection Tubes | 14/24 |
| 454382 | VACUETTE® TUBE 2 ml 9NC Coagulation sodium citrate 3.8%, 13x75 blue cap-white ring, sandwich tube, non-ridged | Blood Collection Tubes | 14/24 |
| 454385 | VACUETTE® TUBE 3 ml 9NC Coagulation sodium citrate 3.8%, 13x75 blue cap-black ring, sandwich tube, PREMIUM | Blood Collection Tubes | 14 |
| 454387 | VACUETTE® TUBE 3.5 ml 9NC Coagulation sodium citrate 3.8%, 13x75 blue cap-black ring, sandwich tube, PREMIUM | Blood Collection Tubes | 14 |
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| 454393 | VACUETTE® TUBE 3 ml 9NC Coagulation sodium citrate 3.8%, 13x75 blue cap-black ring, sandwich tube, non-ridged | Blood Collection Tubes | 14 |
| 454409 | VACUETTE® TUBE 2 ml K2E K2EDTA, 13x75 lavender cap-white ring, transparent label, non-ridged | Blood Collection Tubes | 18/24 |
| 454410 | VACUETTE® TUBE 4 ml K2E K2EDTA, 13x75 lavender cap-black ring, transparent label, non-ridged | Blood Collection Tubes | 18 |
| 454411 | VACUETTE® TUBE 3 ml K2E K2EDTA, 13x75 lavender cap-black ring, transparent label, non-ridged | Blood Collection Tubes | 18 |
| 454421 | VACUETTE® TUBE 2 ml Homocysteine Detection, 13x75 white cap-red ring, sandwich tube, PREMIUM | Blood Collection Tubes | 23 |
| 454425 | VACUETTE® TUBE 4 ml K3E K3EDTA, 13x75 lavender cap-black ring, non-ridged, transparent label | Blood Collection Tubes | 18 |
| 454433 | VACUETTE® TUBE 4 ml Z Serum Clot Activator, 13x75 red cap-black ring, transparent label, non-ridged | Blood Collection Tubes | 15 |
| 454438 | VACUETTE® TUBE 4 ml FX Sodium Fluoride / Potassium Oxalate, 13x75 grey cap-black ring, transparent label, non-ridged | Blood Collection Tubes | 20 |
| 454462 | VACUETTE® TUBE 3.5 ml CTAD, 13x75 blue cap-yellow ring, sandwich tube, transparent label, non-ridged | Blood Collection Tubes | 14 |
| 454486 | VACUETTE® TUBE 4 ml Urine CCM, 13x75 yellow cap-black ring, Round Base, non-ridged | Urine Collection System | 62 |
| 454510 | VACUETTE® FC Mix TUBE 2 ml, 13x75 pink cap-white ring, transparent label, non-ridged | Blood Collection Tubes | 20 |
| 454511 | VACUETTE® FC Mix TUBE 2 ml, 13x75 grey cap-white ring, transparent label, non-ridged | Blood Collection Tubes | 20 |
| 454513 | VACUETTE® FC Mix TUBE 3 ml, 13x75 pink cap-black ring, transparent label, non-ridged | Blood Collection Tubes | 20 |
| 454514 | VACUETTE® FC Mix TUBE 3 ml, 13x75 grey cap-black ring, transparent label, non-ridged | Blood Collection Tubes | 20 |
| 455001 | VACUETTE® TUBE 9 ml Z No Additive, 16x100 white cap-black ring, non-ridged | Blood Collection Tubes | 19 |

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| 455010 | VACUETTE® TUBE 9 ml Z Serum Separator Clot Activator, 16x100 red cap-yellow ring, non-ridged | Blood Collection Tubes | 16 |
| 455021 | VACUETTE® TUBE 8 ml K2E K2EDTA Separator, 16x100 white cap-yellow ring, non-ridged | Blood Collection Tubes | 17 |
| 455028 | VACUETTE® TUBE 9 ml Z Urine No Additive, 16x100 yellow cap-yellow ring, Conical Base, non-ridged | Urine Collection System | 62 |
| 455031 | VACUETTE® TUBE 9 ml AH Ammonium Heparin, 16x100 green cap-red ring, non-ridged | Blood Collection Tubes | 17 |
| 455034 | VACUETTE® TUBE 9 ml Z Serum Separator Clot Activator, 16x100 gold cap-gold ring, non-ridged | Blood Collection Tubes | 16 |
| 455036 | VACUETTE® TUBE 9 ml K3E K3EDTA, 16x100 lavender cap-black ring, non-ridged | Blood Collection Tubes | 18 |
| 455040 | VACUETTE® TUBE 8 ml K2E K2EDTA Separator, 16x100 lavender cap-yellow ring, non-ridged | Blood Collection Tubes | 17 |
| 455045 | VACUETTE® TUBE 9 ml K2E K2EDTA, 16x100 lavender cap-black ring, non-ridged | Blood Collection Tubes | 18 |
| 455051 | VACUETTE® TUBE 9 ml NH Sodium Heparin, 16x100 green cap-green ring, non-ridged | Blood Collection Tubes | 17 |
| 455052 | VACUETTE® TUBE 10 ml Urine CCM, 16x100 yellow cap-black ring, Round Base, non-ridged | Urine Collection System | 62 |
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| 455083 | VACUETTE® TUBE 8 ml LH Lithium Heparin Separator, 16x100 green cap-yellow ring, non-ridged | Blood Collection Tubes | 17 |
| 455084 | VACUETTE® TUBE 9 ml LH Lithium Heparin, 16x100 green cap-black ring, non-ridged | Blood Collection Tubes | 16 |
| 455092 | VACUETTE® TUBE 9 ml Z Serum Clot Activator, 16x100 red cap-black ring, non-ridged | Blood Collection Tubes | 15 |
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| 455094 | VACUETTE® TUBE 9 ml ACD-B, 16x100 yellow cap-black ring, non-ridged | Blood Collection Tubes | 21 |
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| 455227 | VACUETTE® TUBE 7 ml Z Urine No Additive, 16x100 yellow cap-yellow ring, Round Base, non-ridged | Urine Collection System | 62 |
| 455243 | VACUETTE® TUBE 9 ml Urine CCM, 16x100 yellow cap-black ring, Conical Base, non-ridged | Urine Collection System | 62 |
| 456001 | VACUETTE® TUBE 6 ml Z No Additive, 13x100 white cap-black ring, PREMIUM | Blood Collection Tubes | 19 |
| 456007 | VACUETTE® TUBE 6 ml Z Urine No Additive, 13x100 yellow cap-yellow ring, Round Base, PREMIUM | Urine Collection System | 62 |
| 456010 | VACUETTE® TUBE 5 ml Z Serum Separator Clot Activator, 13x100 gold cap-gold ring, PREMIUM | Blood Collection Tubes | 15 |
| 456011 | VACUETTE® TUBE 5 ml K2E K2EDTA Separator, 13x100 lavender cap-yellow ring, PREMIUM | Blood Collection Tubes | 17 |
| 456018 | VACUETTE® TUBE 5 ml Z Serum Separator Clot Activator, 13x100 gold cap-gold ring, black label, non-ridged | Blood Collection Tubes | 16 |
| 456023 | VACUETTE® TUBE 6 ml K2E K2EDTA, 13x100 lavender cap-black ring, PREMIUM | Blood Collection Tubes | 18 |
| 456028 | VACUETTE® TUBE 6 ml NH Sodium Heparin, 13x100 green cap-green ring, non-ridged | Blood Collection Tubes | 17 |
| 456034 | VACUETTE® TUBE 5 ml K3E K3EDTA, 13x100 lavender cap-black ring, PREMIUM | Blood Collection Tubes | 18 |
| 456036 | VACUETTE® TUBE 6 ml K3E K3EDTA, 13x100 lavender cap-black ring, PREMIUM | Blood Collection Tubes | 18 |
| 456038 | VACUETTE® TUBE 6 ml K3E K3EDTA, 13x100 lavender cap-black ring, non-ridged | Blood Collection Tubes | 18 |
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| 456051 | VACUETTE® TUBE 6 ml NH Sodium Heparin, 13x100 green cap-green ring, PREMIUM | Blood Collection Tubes | 17 |
| 456052 | VACUETTE® TUBE 6 ml K3E Crossmatch K3EDTA, 13x100 pink cap-black ring, special label, non-ridged | Blood Collection Tubes | 23 |
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| 456057 | VACUETTE® TUBE 6 ml CPDA, 13x100 yellow cap-black ring, non-ridged | Blood Collection Tubes | 21 |
| 456058 | VACUETTE® TUBE 5 ml K2E K2EDTA Separator, 13x100 white cap-yellow ring, non-ridged | Blood Collection Tubes | 17 |
| 456062 | VACUETTE® TUBE 6 ml FX Sodium Fluoride / Potassium Oxalate, 13x100 grey cap-black ring, PREMIUM | Blood Collection Tubes | 20 |
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| 456069 | VACUETTE® TUBE 5 ml Z Serum Separator Clot Activator, 13x100 red cap-yellow ring, transparent label, non-ridged | Blood Collection Tubes | 16 |
| 456071 | VACUETTE® TUBE 5 ml Z Serum Separator Clot Activator, 13x100 red cap-yellow ring, PREMIUM | Blood Collection Tubes | 15 |
| 456073 | VACUETTE® TUBE 5 ml Z Serum Separator Clot Activator, 13x100 red cap-yellow ring, non-ridged | Blood Collection Tubes | 16 |
| 456080 | VACUETTE® TUBE 6ml NH Trace Elements Sodium Heparin, 13x100 royal blue cap-black ring, PREMIUM | Blood Collection Tubes | 22 |
| 456083 | VACUETTE® TUBE 5 ml LH Lithium Heparin Separator, 13x100 green cap-yellow ring, PREMIUM | Blood Collection Tubes | 17 |
| 456084 | VACUETTE® TUBE 6 ml LH Lithium Heparin, 13x100 green cap-black ring, PREMIUM | Blood Collection Tubes | 16 |
| 456085 | VACUETTE® TUBE 6 ml Z No Additive, 13x100 white cap-black ring, non-ridged | Blood Collection Tubes | 19 |
| 456087 | VACUETTE® TUBE 5 ml LH Lithium Heparin Separator, 13x100 green cap-yellow ring, non-ridged | Blood Collection Tubes | 17 |
| 456088 | VACUETTE® TUBE 6 ml LH Lithium Heparin, 13x100 green cap-black ring, non-ridged | Blood Collection Tubes | 16 |
| 456089 | VACUETTE® TUBE 6 ml Z Serum Clot Activator, 13x100 red cap-black ring, non-ridged | Blood Collection Tubes | 15 |
| 456092 | VACUETTE® TUBE 6 ml Z Serum Clot Activator, 13x100 red cap-black ring, PREMIUM | Blood Collection Tubes | 15 |
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| 456202 | VACUETTE® TUBE 5 ml Z Discard Tube, 13x100 black cap-red ring, non-ridged | Blood Collection Tubes | 19 |
| 456204 | VACUETTE® TUBE 6 ml ACD-B, 13x100 yellow cap-black ring, non-ridged | Blood Collection Tubes | 21 |
| 456205 | VACUETTE® TUBE 5 ml K2E K2EDTA Separator, 13x100 white cap-yellow ring, transparent label, non-ridged | Blood Collection Tubes | 17 |
| 456211 | VACUETTE® TUBE 5 ml K2E K2EDTA Separator, 13x100 white cap-yellow ring, PREMIUM | Blood Collection Tubes | 17 |
| 456216 | VACUETTE® TUBE 5 ml LH Lithium Heparin Separator, 13x100 green cap-yellow ring, transparent label, non-ridged | Blood Collection Tubes | 17 |
| 456217 | VACUETTE® TUBE 5 ml Z Discard Tube, 13x100 white cap-black ring, non-ridged | Blood Collection Tubes | 19 |
| 456234 | VACUETTE® TUBE 5 ml Z Serum Separator Clot Activator, 13x100 gold cap-gold ring, transparent label, non-ridged | Blood Collection Tubes | 16 |
| 456243 | VACUETTE® TUBE 6 ml K2E K2EDTA, 13x100 lavender cap-black ring, transparent label, non-ridged | Blood Collection Tubes | 18 |
| 456275 | VACUETTE® TUBE 6 ml NH Trace Elements Sodium Heparin, 13x100 royalblue cap-black ring, non-ridged | Blood Collection Tubes | 22 |
| 456282 | VACUETTE® TUBE 5 ml K2E K2EDTA Separator, 13x100 lavender cap-yellow ring, non-ridged | Blood Collection Tubes | 17 |
| 456284 | VACUETTE® TUBE 6 ml Urine CCM, 13x100 yellow cap-black ring, Round Base, non-ridged | Urine Collection System | 62 |
| 458710 | VACUETTE® ID Snap Ring Starter Kit, contains all 5 colours (orange, green, pink, blue, grey) + rack | Accessories/Medical Devices | 38 |
| 458711 | VACUETTE® ID Snap Ring, orange | Accessories/Medical Devices | 38 |
| 458712 | VACUETTE® ID Snap Ring, green | Accessories/Medical Devices | 38 |
| 458713 | VACUETTE® ID Snap Ring, pink | Accessories/Medical Devices | 38 |
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| 459001 | VACUETTE® SECONDARY Tube MULTIPLEX PP, 13x75 mm with orange screw closure, PREMIUM | Accessories/Medical Devices | 40 |
| 459010 | VACUETTE® SECONDARY Tube MULTIPLEX PP, 13x75 mm without cap, PREMIUM | Accessories/Medical Devices | 40 |
| 459011 | VACUETTE® SECONDARY Tube MULTIPLEX PET, 13x75 mm without cap, PREMIUM | Accessories/Medical Devices | 40 |
| 459020 | VACUETTE® SECONDARY Tube SIMPLEX RD PET, 13x75 mm without cap, non-ridged | Accessories/Medical Devices | 40 |
| 459021 | VACUETTE® SECONDARY Tube SIMPLEX BC PET, 13x75 mm without cap, non-ridged | Accessories/Medical Devices | 40 |
| 472001 | VACUETTE® Transport Box (VTB), incl. Foam Insert for 40 Tubes, with Transport Carton HK0190 | Accessories/Medical Devices | 44 |
| 472010 | Foam Insert for VACUETTE® Transport Box (VTB), grey, for 40 Tubes (all sizes) | Accessories/Medical Devices | 44 |
| 472011 | GBO Rack for Blood Collection Tubes, 10 positions, autoclavable | Accessories/Medical Devices | 44 |
| 472015 | Absorbent Pad for VTB and VTC | Accessories/Medical Devices | 44 |
| 472016 | Cooler Pack for VACUETTE® Transport Box (VTB), light blue | Accessories/Medical Devices | 44 |
| 472017 | Cooler Pack for VACUETTE® Transport Container (VTC), light blue | Accessories/Medical Devices | 44 |
| 472020 | Carrier Bag for 1 piece VACUETTE® Transport Box (VTB), Isotherm, small, dark blue | Accessories/Medical Devices | 45 |
| 472022 | Carrier Bag for 1 piece VACUETTE® Transport Container (VTC), Isotherm, small, dark blue | Accessories/Medical Devices | 45 |
| 472023 | Carrier Bag for 3 pieces VACUETTE® Transport Boxes (VTB), Isotherm, medium, dark blue | Accessories/Medical Devices | 45 |
| 472024 | Carrier Bag for 4 pieces VACUETTE® Transport Boxes (VTB), Isotherm, big, dark blue | Accessories/Medical Devices | 45 |
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| 472201 | ThermoScan Temperature Monitoring Unit with calibration certificate | Accessories/Medical Devices | 45 |
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| 474036 | VACUETTE® TUBE 4 ml K3E K3EDTA, 13x75 lavender cap-black ring, transparent label, PREMIUM | Blood Collection Tubes | 18 |
| 474064 | VACUETTE® TUBE 3.5 ml CTAD, 13x75 blue cap-yellow ring, sandwich tube, transparent label, PREMIUM | Blood Collection Tubes | 14 |
| 474065 | VACUETTE® TUBE 2 ml CTAD, 13x75 blue cap-yellow ring, sandwich tube, transparent label, PREMIUM | Blood Collection Tubes | 14 |
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| 474084 | VACUETTE® TUBE 4 ml LH Lithium Heparin, 13x75 green cap-black ring, transparent label, PREMIUM | Blood Collection Tubes | 16 |
| 474086 | VACUETTE® TUBE 3 ml K3E K3EDTA, 13x75 lavender cap-black ring, transparent label, PREMIUM | Blood Collection Tubes | 18 |
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| 474092 | VACUETTE® TUBE 4 ml Z Serum Clot Activator, 13x75 red cap-black ring, transparent label, PREMIUM | Blood Collection Tubes | 15 |
| 474214 | VACUETTE® TUBE 3.5 ml Z Serum Separator Clot Activator, 13x75 gold cap-gold ring, transparent label, PREMIUM | Blood Collection Tubes | 15 |
| 474304 | VACUETTE® TUBE 3 ml CTAD, 13x75 blue cap-yellow ring, sandwich tube, transparent label, PREMIUM | Blood Collection Tubes | 14 |
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| 474327 | VACUETTE® TUBE 3.5 ml 9NC Coagulation sodium citrate 3.2%, 13x75 blue cap-black ring, sandwich tube, transparent label, PREMIUM | Blood Collection Tubes | 14 |
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| 476083 | VACUETTE® TUBE 5 ml LH Lithium Heparin Separator, 13x100 green cap-yellow ring, transparent label, PREMIUM | Blood Collection Tubes | 17 |
| 476084 | VACUETTE® TUBE 6 ml LH Lithium Heparin, 13x100 green cap-black ring, transparent label, PREMIUM | Blood Collection Tubes | 16 |
| 476092 | VACUETTE® TUBE 6 ml Z Serum Clot Activator, 13x100 red cap-black ring, transparent label, PREMIUM | Blood Collection Tubes | 15 |
| 485511 | VACUETTE® TUBE 10 ml Urine CCM, 16x100 yellow cap-black ring, barcode label, G-Code, Round Base, non-ridged | Urine Collection System | 62 |
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| 729070 | VACUETTE® TUBE 2.75 ml 4NC ESR sodium citrate 3.2%, 9x120 black cap, PP | Blood Collection Tubes | 22/59 |
| 729073 | VACUETTE® TUBE 1.5 ml 4NC ESR sodium citrate 3.2%, 9x120 black cap, PP | Blood Collection Tubes | 22/59 |
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| HK0259 | Mailing Carton, 110x110x140mm, brown, one-tone-printed for VTC | Accessories/Medical Devices | 44 |



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