

Your **Power** for Health



greiner bio-one



VACUETTE® Barcode Tubes

The new generation for
increased safety and efficiency

VACUETTE® Barcode Tubes ...

... minimize the risk of mixing up sample tubes, thus 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.

VACUETTE® Barcode Tubes provide the following advantages:

- No unnecessary preparatory steps for sample collection such as manual printing and placing barcode labels
- No more risk of patient identification and/or sample mix-ups
- Simple product solution especially for the collection of samples in sterile environments
- Foundation for the automatic compilation of collection times and collecting people of all collected samples
- Track and trace
- The standardized label position ensures improved readability on the analyzer
- Quality of barcode is tested according to international standards
- Wide choice of different types of barcode tubes
- Important information cannot be covered up - Best possible visualization of the sample quality (i.e. fill level, hemolysis)



VACUETTE® Barcode Tubes are easy to use:



1 Patient Identification & Blood Collection

2 Scan Sample-ID

3 Sample analysis in the laboratory



Potential for savings with **VACUETTE®** Barcode Tubes

In a scientific project¹, the potential for savings from the application of **VACUETTE®** Barcode Tubes with the appropriate barcode software for integrated data transfer was investigated.

Potential for optimization could be identified for the following process stages in a laboratory with an average daily throughput of 1,270 samples (323,850 samples a year based on 255 working days):

Process stage	Current time & costs per person-hour	Best practice time & costs
Incoming goods control	16 hrs.	16 hrs.
Data input	8 hrs.	---
Trouble shooting	4 hrs.	2 hrs.
Printing and attaching labels	24 hrs.	---
Centrifugation and distribution to instruments	8 hrs.	8 hrs.
Scanning requisition papers	4 hrs.	---
Personnel-hours invested each day	64 hrs.	26 hrs.
Costs² for 255 working days per year	571,200.- Euro	232,050.- Euro

Potential saving for the whole process

In total:

Per processed sample³:

339,150.00 Euro
1.05 Euro



In addition to increased efficiency, the following problems could be minimized:



Incorrect data input



Incorrect choice of sample tube



Incorrectly labelled samples



Time-consuming sorting in incoming goods



Unreadable / Illegible data



Poor barcode print and attachment

¹ Cf. Potential der elektronischen Datenübertragung mittels XML im B2B Laborbereich, 2009. Please contact us directly if you would like further information to the scientific project mentioned.

² Based on an hourly rate of Euro 35.-

³ 339,150 (savings per year) / 323,850 (samples per year) = 1.05

Areas of application in the healthcare sector

VACUETTE® Barcode Tubes can be applied in all areas of sample collection. This applies not only to human medicine but also to the area of veterinary medicine.



VACUETTE® Standard Barcode Tubes

VACUETTE® Bi-Barcode Tubes

Even where the infrastructure is not complete, the use of **VACUETTE®** Bi-Barcode labels can increase efficiency enormously. The barcode label on this tube is in two sections, with the same barcode on each label piece. One piece of the label stays attached to the tube, and the other piece can be peeled off to be attached to the requisition form or secondary container. This is another, cost-effective way of using barcode tubes when the appropriate software is not available.



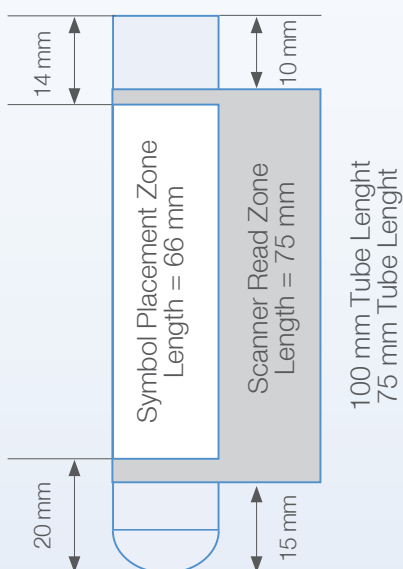
VACUETTE® Bi-Barcode Tubes

Laboratory automation

To ensure readability, laboratory instruments require that the barcode is precise and correctly positioned.



On **VACUETTE**[®] Barcode Tubes, the barcode labels are positioned according to international standards. (CLSI AUTO2 – A2 Vol. 25, page 14).



We recommend **VACUETTE**[®] Barcode Tubes with the “V-Code”:

- Code 128 (recommended by CLSI / ISO IEC 15416)
- 10 unique characters for optimal readability
- Sample tube item number
- Production data (for example expiry date)
- Unique GBO serial number



For further information, please visit our website www.gbo.com/preanalytics or contact us:

Austria (Main Office)

Greiner Bio-One GmbH
Phone +43 7583 6791-0
Fax +43 7583 6318
E-Mail office@at.gbo.com

Germany

Greiner Bio-One GmbH/Preanalytics
Tel +49 7022 948-0
Fax +49 7022 948-514
E-Mail office@de.gbo.com

Spain

VACUETTE Espana S.A.
Phone +34 91 652 77 07
Fax +34 91 652 33 35
E-Mail info@vacuette.es

United Kingdom

Greiner Bio-One Ltd.
Phone +44 1453 8252 55
Fax +44 1453 8262 66
E-Mail info@uk.gbo.com

Brazil

Greiner Bio-One Brasil
Phone +55 19 3468-9600
Fax +55 19 3468-9621
E-Mail office@br.gbo.com

Hungary

Greiner Bio-One Hungary Kft.
Phone +36 96 213 088
Fax +36 96 213 198
E-Mail office@hu.gbo.com

Switzerland

Greiner Bio-One VACUETTE
Schweiz GmbH
Phone +41 7 12 28 55 22
Fax +41 7 12 28 55 21
E-Mail office@ch.gbo.com

USA

Greiner Bio-One North America Inc.
Phone +1 704 261-7800
Fax +1 704 261-7899
E-Mail info@us.gbo.com

China

Greiner Bio-One Suns Co., Ltd.
Phone +86 10 83 55 19 91
Fax +86 10 63 56 69 00
E-Mail office@cn.gbo.com

India

Greiner Bio-One INDIA Pvt., Ltd.
Phone +91 120 456 8787
Fax +91 120 456 8788
E-Mail info@gboindia.com

Thailand

Greiner Bio-One Thailand Ltd
Phone +66 38 4656 33
Fax +66 38 4656 36
E-Mail office@th.gbo.com

France

Greiner Bio-One SAS
Phone +33 1 69 86 25 25
Fax +33 1 69 86 25 35
E-Mail office@fr.gbo.com

Netherlands

Greiner Bio-One B.V.
Phone +31 172 4209 00
Fax +31 172 4438 01
E-Mail info@nl.gbo.com