



VACUETTE® GLUCOMEDICS Tubes

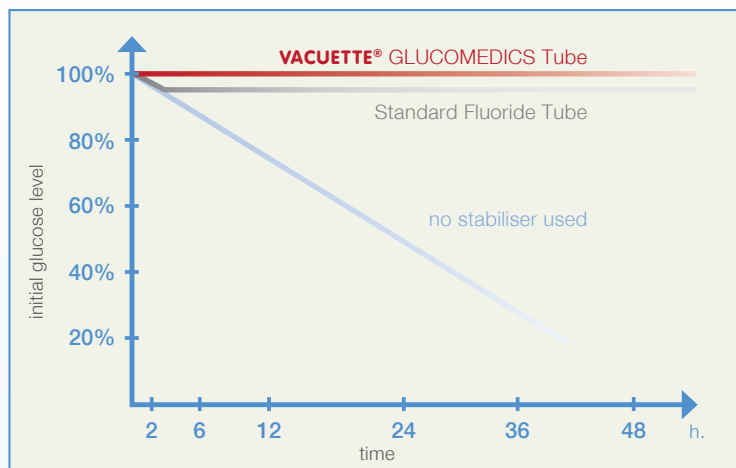
Effective glycolysis inhibition by
immediate sample stabilisation

VACUETTE® GLUCOMEDICS

Glucose-based laboratory diagnosis of Diabetes mellitus has recently undergone some changes.¹ The reliable stabilisation of blood sugar levels immediately after sampling is thus an important precondition for the accuracy of the analysis result. Various directives (American Association of Clinical Chemistry, American Diabetes Association, Deutsche Diabetes Gesellschaft) deal with this topic in some detail.²

The aim is to raise quality standards by means of effective glycolysis inhibition before analysis, thus facilitating a more accurate diagnosis.

Effective and immediate glycolysis inhibition



Initial Glucose Level

The new **VACUETTE®** GLUCOMEDICS tube was specially developed for this area of application by Greiner Bio-One.

The additive mixture in the **VACUETTE®** GLUCOMEDICS tube stabilises the blood sample immediately after sampling and impedes the breakdown of glucose over time (glycolysis). The combination of sodium EDTA, sodium fluoride, citric acid and sodium citrate acidifies the whole blood sample, resulting in the immediate and complete inhibition of glycolysis, thus setting it apart from conventional sodium fluoride tubes.

The glucose concentration of whole blood and/or plasma samples is kept constant at room temperature for up to 48 hours at the "in-vivo value" (almost 100% of the original value).³

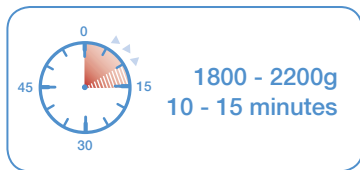
Easy mixing of the sample

The dosed liquid additives in the **VACUETTE®** GLUCOMEDICS tube ensure easy mixing of the additive with the whole blood sample. Complete mixing with the additive is ensured by inverting the tube five to ten times.

To make up for the dilution effect of the additive, the analysis result must be multiplied by **a factor of 1.16**. This is required to achieve the "in-vivo glucose concentration" in the plasma.



Greiner Bio-One recommends the following centrifugation setting for obtaining plasma:



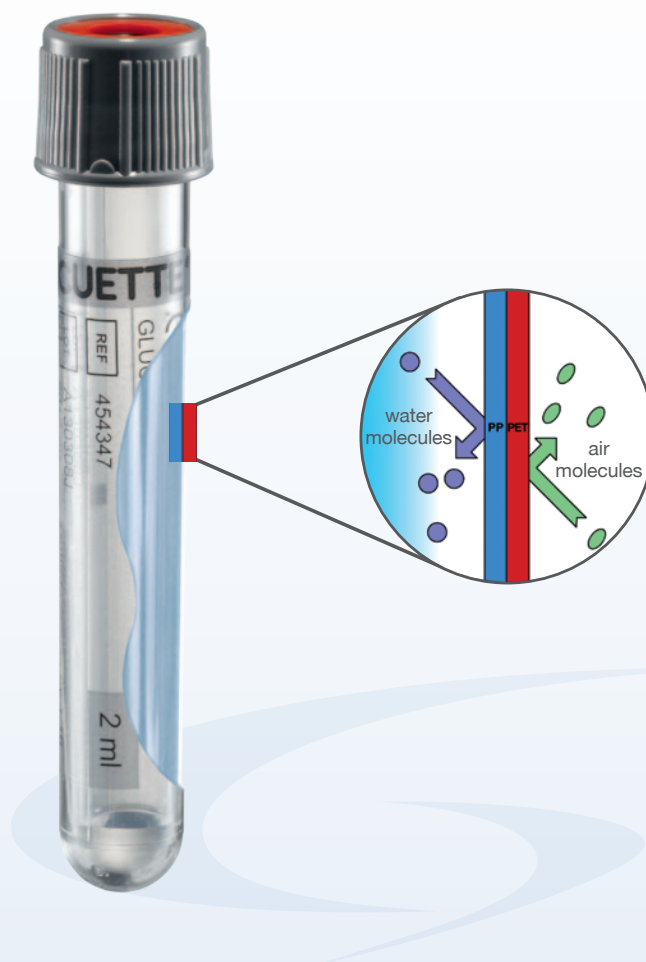
Sandwich tubes for maximum safety

With the new **VACUETTE**[®] GLUCOMEDICS tube, Greiner Bio-One makes use of its proven vacuum technology.

GLUCOMEDICS is a "sandwich tube" with a safety cap. The inner tube is made of polypropylene (PP) and prevents the evaporation of the additive mixture.

The outer tube is made of polyethylene terephthalate (PET). PET is important for maintaining the vacuum.

The fill volume of the **VACUETTE**[®] GLUCOMEDICS tube is 2 ml.



Item No.	Nom. Vol.	Description	Packaging	
			Inner	Outer
454347	2 ml	VACUETTE [®] GLUCOMEDICS Tube Non-ridged, sandwich, grey/red, 13 x 75	50 pcs.	1.200 pcs.

For more detailed information about handling the **VACUETTE**[®] GLUCOMEDICS tube, please see **VACUETTE**[®] instructions for use 980200 (www.gbo.com/preanalytics).

Sources

- 1 Effektive Glykolyse-Inhibierung im Citrat-gepufferten venösen Vollblut und Plasma, Lab Med 2012, 36(3):169-177
- 2 Guidelines and Recommendations of Laboratory Analysis in the Diagnosis and Management of Diabetes Mellitus, Clinical Chemistry 57:6 (2011)
- 3 Stability of glucose concentration using **VACUETTE**[®] GLUCOMEDICS blood collection tubes



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

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