VACUSERA®

FC Glucose Tube

Advanced Pre-analytical Control for Glucose Stability



Reduce the Impact of Time. Support Glucose Stability.

VACUSERA

VACUSERA



An innovative glycolysis inhibition system designed to reduce the impact of pre-analytical delays and improper sample handling on glucose measurements.

Following blood collection in standard glucose tubes (FE, FX), blood cells remain metabolically active and continue to consume glucose. Glucose loss, particularly during the first 30–60 minutes after collection, may introduce variability in test results when sample analysis is delayed.

- VACUSERA® FC Glucose Tubes enables accurate determination of in vivo blood glucose levels, which is particularly important in the diagnosis and monitoring of diabetes mellitus and gestational diabetes. [1,2]
- VACUSERA® FC Glucose Tubes are designed to stabilize glucose immediately after collection for 48 hours and to reduce the impact of pre-analytical delays, particularly when centrifugation cannot be performed immediately.

Why VACUSERA® FC?

Advanced Glycolysis Inhibition

- Its multi-stage additive system reduces glucose loss during the first hour and minimize variability that may occur over time.

Control of Pre-analytical Variability

- Reduces time-dependent variability that may occur during sample processing.

Suitable for Time-Sensitive Glucose Testing

- Supports glucose stability in time-sensitive applications such as OGTT. Its use is not limited to OGTT and extends to glucose measurements in general.

Compatible with Routine Laboratory Workflows

- Its technical approach to controlling pre-analytical variables allows seamless integration into existing laboratory workflows.



MULTI-STAGE GLYCOLYSIS INHIBITION

Ensures accurate determination of in vivo blood glucose levels in the diagnosis and monitoring of diabetes and gestational diabetes.

Kellerer et al., 2011; Sacks et al., 2011

BLOOD COLLECTION | FIRST MINUTES | FIRST HOUR | OVER TIME

STAGE 1 · EARLY PROTECTION

Citrate / Citric Acid Buffer System

Helps regulate pH and inhibit the early stages of glycolysis.

STAGE 2 · SUSTAINED PROTECTION

Sodium Fluoride

Acts at a later stage and supports sustained glycolysis inhibition.

WHY VACUSERA FC?

Advanced Glycolysis Inhibition
The multi-additive system helps reduce glucose loss within the first hour.

Control of Pre-analytical Variability
Reduces time-dependent variability during sample processing.

Suitable for Time-Sensitive Testing
Suitable for all glucose measurements, including OGTT.

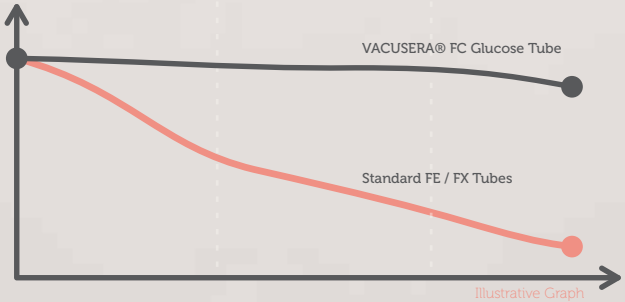
Compatible with Routine Laboratory Workflows
Integrates seamlessly into existing laboratory processes.

INTENDED EFFECT

- Reduction of glucose loss within the first hour
- Minimization of time-dependent variability

STABILITY
FOR UP TO
48 HOURS
Designed to support stability

GLUCOSE STABILITY OVER TIME



Illustrative Graph

VACUSERA®

FC Glucose Tube



Mixing Recommendation

Gently invert 15–20 times.

The additive in VACUSERA® FC Glucose Tubes is in solid (powder) form. Following blood collection, gently inverting the tube 15–20 times is required to ensure homogeneous mixing of the additive with the blood and support its intended function.

RECOMMENDED USE

15-20x
Gently invert

1,800 × g / 10 min
Recommended centrifugation

VACUSERA FC/SODIUM FLUORIDE+CITRIC ACID

Reference Number	Description	Draw vol. (ml)	Size (mm)	Additive	Shelf life	Label Type	Pack/ Carton	Cap Colour
434742	VACUSERA 2 ml FC Sodium Fluoride + Citric Acid	2	13 x 75	FC Sodium Fluoride + Citric Acid	18 months	Transparent	100/1200	
434742G	VACUSERA 2 ml FC Sodium Fluoride + Citric Acid	2	13 x 75	FC Sodium Fluoride + Citric Acid	18 months	Transparent	100/1200	
434743	VACUSERA 3 ml FC Sodium Fluoride + Citric Acid	3	13 x 75	FC Sodium Fluoride + Citric Acid	18 months	Transparent	100/1200	
434743G	VACUSERA 3 ml FC Sodium Fluoride + Citric Acid	3	13 x 75	FC Sodium Fluoride + Citric Acid	18 months	Transparent	100/1200	
434744	VACUSERA 4 ml FC Sodium Fluoride + Citric Acid	4	13 x 75	FC Sodium Fluoride + Citric Acid	18 months	Transparent	100/1200	
434744G	VACUSERA 4 ml FC Sodium Fluoride + Citric Acid	4	13 x 75	FC Sodium Fluoride + Citric Acid	18 months	Transparent	100/1200	

1. Kellerer et al, Gestationsdiabetes mellitus – Praxisleitlinie der DDG und der DGGG, [Gestational diabetes – practice guidelines of the DDG and DGGG] (2011)
2. Sacks et al, Guidelines and Recommendations of Laboratory Analysis in the Diagnosis and Management of Diabetes Mellitus, Clinical Chemistry 57:6 (2011)

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