

Product Information

Glucose Tubes

VACUETTE® FC Mix Tubes

Until now...

Sodium fluoride has been used in blood collection tubes to preserve glucose by inhibiting enzymes. It blocks enolase in the glycolytic pathway to prevent the degradation of glucose.

After an initial loss within the first approximately 3 hours after blood collection, fluoride is able to preserve the sample for at least 24 hours in whole blood. Anticoagulants are used together with sodium fluoride to achieve plasma samples for glucose testing.^{1,2}

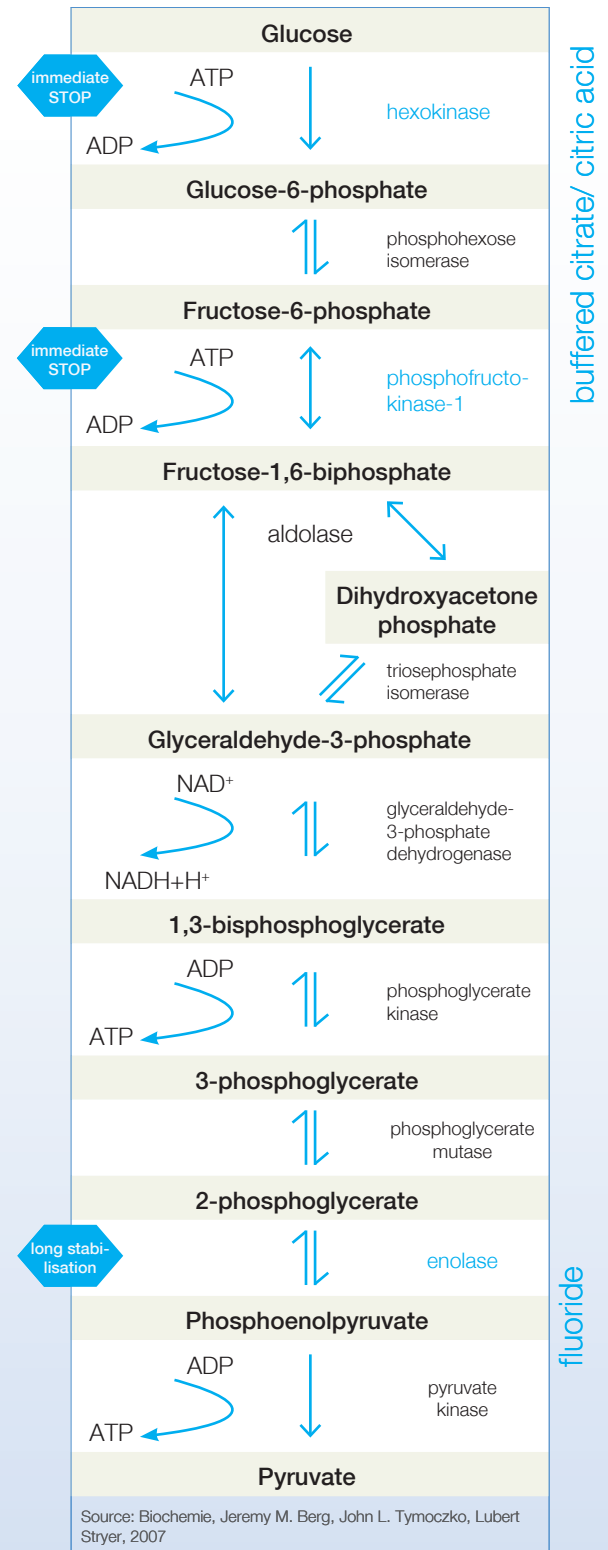
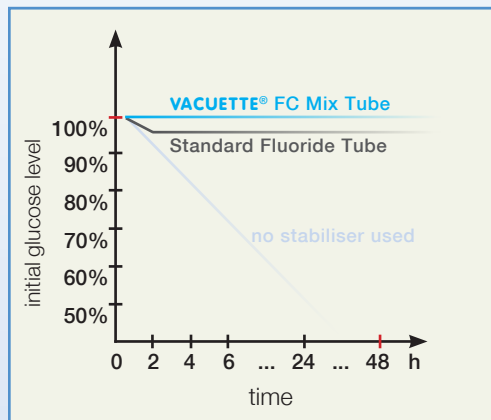
New way of stabilization...

To prevent the average loss of ~9mg/dl within the first 3 hours¹, buffered Na₂EDTA, sodium fluoride, citric acid and sodium citrate are used to decrease the pH and block the pH dependent enzymes, which would be active in the initial stage of the glycolysis cascade.

This results in an even more accurate stabilisation of the in-vivo glucose concentration than before. However, decision limits and reference intervals may need to be revised by the lab when using this new stabilizer.

In order to ensure optimal stabilization, the tubes must be **inverted 10x** directly after blood collection. They stabilize the in-vivo glucose level for up to 48 hours.

To obtain plasma, the tubes should be centrifuged at **1800g** for **10 minutes**.



1 - Diagnostic Samples: From the Patient to the Laboratory, Walter G. Guder, Sheshadri Narayanan, Hermann Wisser, Bernd Zawta, 4, 2009

2 - Tietz clinical guide to laboratory tests, Alan H. B. Wu, 2006

Information is subject to change without notice. Please always also refer to the official instructions for use. Valid until recalled. This Product Information replaces all previous ones related to this matter.

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