No conversion factor

Unlike additives injected in liquid form, the powder additive in the VACUETTE® FC Mix tube has no dilution effect. There is therefore no need to take a conversion factor into consideration.

Inserting ten times ensures that the tube additive is completely dissolved and therefore well mixed with the sample.

Tried-and-tested vacuum technology

Greiner Bio-One’s tried-and-tested vacuum technology is used for the new VACUETTE® FC Mix tube. The shatter-proof tube is made of polyethylene terephthalate (PET). PET is important for the stability of the vacuum. The safety cap is particularly easy to open and allows for hygienic working. The transparent plastic label provides an optimum view of the tube contents.

Greiner Bio-One provides the following centrifugation recommendation for collecting plasma in FC Mix Tubes:

1800 G
10 minutes

Glucose stabilisation right from the beginning

VACUETTE® FC Mix Tube

For further information, please visit our website www.gbo.com/preanalytics or contact us.
**VACUETTE® FC Mix tube**

Glucose stabilisation right from the beginning

According to the guidelines from the DDG/DGGG**, the citrate fluoride additive in the tube stabilises the in vivo concentration of glucose in the sample1.2.

The advantages are clear:

- Stabilisation immediately after collection for 48 hours
- Based on the in vivo value (almost 100%)
- Avoids false negative diagnoses of diabetes patients
- Stabilisation allows for longer transport and storage times

Effective glycolysis inhibition for precise determination of the in vivo blood sugar content

The unique additive mixture is what makes the difference:

Citrate/citric acid buffer ensures quick stabilisation

Glycolysis depends on the pH value. It is catalysed by the enzymes hexokinase and phosphofructokinase. When stored between +4°C and room temperature, the enzymes, and consequently also glycolysis, are suppressed and the blood sugar is therefore constantly held at the in vivo value3 4.

**Inhibition via sodium fluoride**

In order to extend the inhibition to 48 hours, the tube contains a sodium fluoride additive.

After correct inversion FC Mix tubes can be stored for up to 24 hours at room temperature without centrifugation.

Should the tubes be expected to be stored longer than 24 hours at room temperature, samples should be immediately centrifuged after blood collection in order to be stored up to 48 hours at room temperature. Stabilised aliquots from FC Mix tubes can be stored for up to 48 hours at room temperature. Tubes should be centrifuged as soon as possible. Cooling of the samples (4–8°C, 39–46°F) is possible.

**FC Mix tube**

...FC Mix Blood Collection Tube for gestational diabetes testing, Whitepaper Hospital Isala, Zwolle (NL) 2016...

1 Sacks et al, Guidelines and Recommendations of Laboratory Analysis in Gestational Diabetes mellitus – practice guidelines of the DDG and DGGG
2 Schwartz et al, Guidelines and Recommendations of Laboratory Analysis in Gestational Diabetes mellitus – practice guidelines of the DDG and DGGG
5 Sacks et al, Guidelines and Recommendations of Laboratory Analysis in Gestational Diabetes mellitus – practice guidelines of the DDG and DGGG
6 Biochemie, Jeremy M. Berg, John L. Tymoczko, Lubert Stryer, 2007

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**References:**

- Sacks et al, Guidelines and Recommendations of Laboratory Analysis in Gestational Diabetes mellitus – practice guidelines of the DDG and DGGG
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