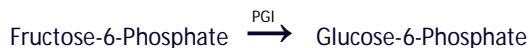


**Principle:****Kit for 45 analyses includes:**

Bottle	Composition	Quantity
A.	Buffer	100 ml
B.	Enzymes	13.6 ml
C.	Invertase	20 ml
STD.	Standard 10 g/l	2 ml

Reagent preparation:

R1: is **Bottle A** and it's ready to use.

R2: is **Bottle B** and it's ready to use.

Invertase solution: Mix 1 volume of **Bottle C** with 1,5 volume of distilled water. Stability of invertase solution: 1 month at 2 to 8°C.

Sample preparation:

If necessary, filtrate or centrifuge the sample in order to eliminate the particles in suspension.

In a tube, mix together 1 ml of sample and 1 ml of invertase solution. Leave the tube at room temperature for 1 hour.

Performance:

This kit has been developed to determine the total concentrations of Sucrose, D-Glucose and D-Fructose in a measuring range from 0 to 10 g/l. If the expected values are higher than 10 g/l, samples should be diluted with distilled water and the result must be multiplied by the dilution factor.

Storage instructions and reagent stability:

The reagents are stable up to the expiry date, if stored at 2 to 8°C. Contamination should be avoided. Do not freeze the reagents!

Warnings and precautions:

Do not swallow the reagents. Avoid contact with the skin and mucous membranes.

Take the necessary precautions for the use of laboratory reagents.

Sample analysis:

	Blank	Standard	Sample
R1	2200 µl	2200 µl	2200 µl
Water	30 µl		
Standard		30 µl	
Sample			30 µl
Mix and read	DO1 blank	DO1 standard	DO1 sample
R2	300 µl	300 µl	300 µl
Mix wait 15 min and read	DO2 blank	DO2 standard	DO2 sample

Wavelength: 340 nm.

Cuvette: 1 cm light path (plastic or glass)

Temperature: 20 – 37°C

Zero against water or air

Calculation:

$$\Delta\text{DO sample} = (\text{DO2-DO1}) \text{ sample} - (\text{DO2-DO1}) \text{ blank}$$

$$\Delta\text{DO standard} = (\text{DO2-DO1}) \text{ standard} - (\text{DO2-DO1}) \text{ blank}$$

$$C \text{ sample (g/l)} = C \text{ standard} \times \frac{\Delta\text{DO sample}}{\Delta\text{DO standard}}$$

Dilution factor of the sample has to be considered in the calculation