

## GLUCOSE

Glucose for bacteriological use.

### USE

GLUCOSE is used as a source of energy readily available for bacteria in fermentation tests (i.e. *Salmonella typhimurium* and *Escherichia coli* ferment glucose). It is free from other sugars and from starch, proteins and metals. In liquid media is used generally at 0.5% concentration; high concentrations are used for the preparation of solid media.

### PHYSICO-CHEMICAL CHARACTERISTICS

	Standard
DCI Name	Dextrose
Ph. Eur. Name	Dextrosium / Glucosum
IUPAC Name	Glucose
Solubility in water at 5%	Complete
Humidity	≤ 0.50 %
Specific Optical Rotation	+ 52.5 / + 53.5
Molar weight	180
Specific weight	750 g/lit
pH	5.1
Acidity	≤ 0.15 ml
Ash	≤ 0.10%
Reducing sugar	Conform
Granulometry	98% lower to 70 Mesh 45% lower to 1400 Mesh

### TECHNIQUE

Glucose can be used as an ingredient of dehydrated culture media and need dissolution in distilled or deionized water and sterilization preferably by filtration.

### QUALITY CONTROL

Dehydrated powder

Appearance: free-flowing, homogeneous.

Colour: white.








### STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.

### PRESENTATION

Product	REF	$\Sigma$
GLUCOSE	611601	500 g
GLUCOSE	621601	100 g
GLUCOSE	6116015	5 Kg

### TABLE OF SYMBOLS

<b>LOT</b> Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests	<b>IVD</b> <i>In Vitro</i> Diagnostic Medical Device
<b>REF</b> Catalogue number	 Fragile, handle with care	 Use by	 Temperature limitation	 Keep away from heat source