CHEMSOLUTE®

Reference: 8110.0100 **Technical Data Sheet**

Product: # Glycerin (Propan-1,2,3-triol) for microbiology and molecular biology

Specification

General purpose reagent for microbiology and molecular biology according to Eur. Pharm.

Presentation

	Packaging Details	Shelf Life	Storage
1 Prepared Bottle Bottle 125 ml with: 100 ± 3 ml	1 box with 1 bottle 125 ml. Injectable cap: Plastic screw inner cap. The use of syringes needles with a diameter greater than 0.8 mm is not recommended.	24 months	8-25 ºC

Composition

Composition (g/l):

Glycerol..... 1.0

Specifications:

Assay: min. 99 %
Water: ≤ 0,5 %
Identity (IR-spectrum): passes test
Absorbance at 260 nm: max. 0,07 AU
Absorbance at 280 nm: max. 0,02 AU
Heavy metals (as Pb): max. 2 ppm
DNases, RNases, Proteases: non detected

Note: methods according to Ph. Eur.

Description /Technique

Viscous liquid, unctuous to the touch, colorless, transparent, very hygroscopic. Miscible with water and alcohol, slightly soluble in acetone, practically insoluble in ether, fats and essential oils. Vegetable origin.
Glycerin $C_3H_8O_3$ (Propane-1,2,3-triol) also called glycerin [N.CAS 56-81-5]: It has properties like osmotic dehydrating agent with hygroscopic and moisturizing properties.
It has many applications in the pharmaceutical industry, as a raw material in its formulations, and can be used as an additive for microbiology culture media such as: DG18 Agar, Wort Agar, etc.
It has incompatibilities: Incompatible with strongly oxidizing agents, such as chromic trioxide, potassium chlorate or potassium permanganate, since it forms explosive mixtures.
In the presence of light and with zinc oxide or bismuth subnitrate, it is colored black.
One of the occasional pollutants of glycerol is iron, which can cause a darkening in mixtures containing phenols, salicylates, tannin, etc.

Quality control

Physical/Chemical control

Color : Transparent/colourless pH: 7.6 ± 0.3 at 25ºC

Microbiological control

Not applicable

Not Applicable

Microorganism	Growth
pseu	Not applicable

Sterility control

Not Performed - Chemical Reagent without nutritive properties.

Bibliography

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· EUROPEAN PHARMACOPOEIA 10.0 (2020) 10th ed. Glycerol. Harmonised Method. EDQM. Council of Europe. Strasbourg.