

Specification

Additive for culture media in microbiology.

Presentation

1 Prepared bottle
Bottle 125 ml
with: 100 ± 3 ml

Packaging Details

1 box with 1 bottle (amber) 125 ml. Plastic screw inner cap.

Shelf Life

48 months

Storage

8-25 °C

Composition

Polysorbate 80.....100 ml

Only for laboratory use.

Raw material complies with DAB10,
USP XXI Eur. Pharm and B.P.

Description /Technique

Under the name of Polysorbate 80 or poly-oxy-ethylene-sorbitan-mono-oleate are included a lot of derivatives of polyose-1,2-ethano-diol sorbitan-mono-9-octodecenoate.

It is a very thick liquid, amber colour, and density 1,08 approx. It is very soluble in water, it has an average solubility in organic diluents but it is not soluble in mineral lipids.

The incorporation of Polysorbate 80 to culture media may slightly affect the final pH.

Although it may bear sterilization in the autoclave when it is more than 1% in the medium, it is usual to homogenize the medium after the sterilization, since with the autoclaving, sometimes the polysorbate is separated from the medium.

Polysorbate is a surfactant agent that makes decrease the superficial tension of the cell, modifying at the same time the cellular exchange speed. The response use to be a quicker growth or the increase of some bacterial activities.

Quality control**Physical/Chemical control**

Color : yellow

Microbiological control

Not Performed - Chemical Reagent without nutritive properties.

Microorganism**Growth**

No aplica

Sterility control

Incubation 7 days at 32.5 ± 2 °C and 7 days at 22.5 ± 2 °C: NO GROWTH.

Bibliography

- EUROPEAN PHARMACOPOEIA 7.0 (2011) 7th ed. Vol. 2. Monographs. Harmonised Method. EDQM. Council of Europe. Strasbourg.
- USP 33 - NF 28 (2011) Monographs. Harmonised Method. USP Corp. Inc. Rockville. MD. USA.