ALLIANCE BIO EXPERTISE

Reference: DSHB3131 **A.B.E. - Technical Data Sheet**

Product: **Polysorbate 80**

Specification

Additive for culture media in microbiology.

Presentation

	Packaging Details	Shelf Life	Storage
1 Prepared bottle Bottle 125 ml with: 100 ± 3 ml	1 box with 1 bottle (amber) 125 ml. Plastic screw inner cap.	48 months	8-25 ºC

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 derivates 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.

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Not Applicable

Microorganism	Growth
No aplica	

Sterility control

Add 5mL of the sample to 100 mL of TSB and to 100 mL Thioglycollate.
Incubation 48 h at 30-35 ºC and 48 h at 20-25 ºC: NO GROWTH.
Check at 7 days after incubation in same conditions.

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.