



TWEEN® 80

Polysorbate 80

1 – INTENDED USE

Tween® 80 is a non-ionic detergent used in microbiological and biochemical applications.

2 - COMPOSITION - BOTTLE CONTENTS

Polysorbate 80 100 mL

3 - PRINCIPLE OF THE METHOD AND EXPLANATION OF THE PROCEDURE

Tween® 80 (polysorbate 80 or polyoxyethylene sorbitan monooleate) is derived from polyethoxylated sorbitan and oleic acid. The hydrophilic groups in this compound are polyethers also known as polyoxyethylene groups, which are polymers of ethylene oxide. In the nomenclature of polysorbates, the numeric designation following polysorbate refers to the lipophilic group, in this case, the oleic acid. Tween® 80 is a non-ionic surfactant and emulsifier, used for microbiological and biochemical applications. Tween 80 is miscible in water (0.1 ml/ml) and yields a clear. It can be added to culture media prior to autoclaving.

4 - DIRECTIONS

Use Tween® 80 for applications chosen in accordance with appropriate and validated procedures.

Tween® 80 may be used for the supplementation of the following culture media before autoclaving:

Giolitti Cantoni Staphylococci Broth according to ISO 6888-3¹: 1 g/litre; Lethen Broth AOAC: 5 g/litre; LPT Dilution Broth: 30 mL/litre; Rogosa Bios Agar and Rogosa Bios Broth: 1 mL/litre; Tryptic Soy Broth for the preparation of Soybean-casein-digest-lecithin-polysorbate 80 medium (SCDLP 80 broth)²: 7 g/L.

5 – PHYSICAL CHARACTERISTICS

Appearance Clear viscous liquid with a light typical smell

Tween® 80 is FU, USP, Ph Eur, FCC, NF grade.

6 - MATERIALS PROVIDED - PACKAGING

Product	Type	REF	Pack
Tween® 80	Liquid supplement	42120502	100 mL

7 - PRECAUTIONS AND WARNINGS

- Tween® 80 is for laboratory use only; it must be used by adequately trained and qualified laboratory personnel, observing approved biohazard precautions and aseptic techniques.
- The supplement and the basal medium shall be used in association according to the directions described above. Apply Good Manufacturing Practice in the preparation process of plated media.
- Tween® 80 is not classified as hazardous; consult the Safety Data Sheet.
- Do not use Tween® 80 as active ingredient for pharmaceutical preparations or as production material intended for human and animal consumption.
- The Certificates of Analysis and the Safety Data Sheet of the product are available on the website www.biolifeitaliana.it.
- The information provided in this document has been defined to the best of our knowledge and ability and represents a guideline for the proper use of the product but without obligation or liability. In all cases existing local laws, regulations and standard procedures must be observed for the examination of samples collected from human and animal organic districts, for environmental samples and for products intended for human or animal consumption. Our information does not relieve our customers from their responsibility for checking the suitability of our product for the intended purpose.

8 - STORAGE CONDITIONS AND SHELF LIFE

Upon receipt, store the product in the original package at +10 °C / +30° C away from direct light. If properly stored, the product may be used up to the expiry date printed on the label; do not use beyond this date. Before use, examine the product and discard if there are obvious signs of deterioration (e.g., contamination, atypical colour or other abnormal characteristics).

9 - REFERENCES

1. ISO 6888-3:2003. Microbiology of food and animal feeding stuffs- Horizontal method for the enumeration of coagulase positive staphylococci (Staphylococcus aureus and other species) – part 3: MPN technique for low number.
2. ISO 18415:2017/Amd 1:2022 Cosmetics — Microbiology — Detection of specified and non-specified microorganisms — Amendment 1

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TABLE OF APPLICABLE SYMBOLS

REF or REF Catalogue number	LOT Batch code	Manufacturer	This side up	Fragile
Temperature limitation	Content sufficient for <n> tests	Consult Instructions for Use	Use by	Keep away from direct light

REVISION HISTORY

Version	Description of changes	Date
Revision 1	Updated layout and content	2024/11

Note: minor typographical, grammatical, and formatting changes are not included in the revision history.

