



TWEEN® 20

Polysorbate 20

1 – INTENDED USE

Tween® 20 is a non-ionic detergent used in microbiological and biochemical applications.

2 - COMPOSITION - BOTTLE CONTENTS

Polysorbate 20 100 mL

3 - PRINCIPLE OF THE METHOD AND EXPLANATION OF THE PROCEDURE

Tween® 20 (polysorbate 20 or sorbitan monolaurate) is a mixture of the partial esters of sorbitol and its mono- and di-anhydrides, condensed with ethylene oxide. The molecule is formed of 20 repeating polyethylene glycol units, which are hydrophilic in nature, attached to a hydrophobic hydrocarbon tail.

Tween® 20 is a membrane protein solubilizing, hydrophilic, non-ionic surfactant, used for microbiological and biochemical applications. Tween® 20 produces stable emulsions that are little affected by high electrolyte concentrations and pH changes. It is an emulsifying and solubilising agent for a wide variety of compounds including oils and vitamins. It can be added to culture media prior to autoclaving.

4 - DIRECTIONS

Use Tween® 20 for applications chosen in accordance with appropriate and validated procedures. Follow the instructions below when using the product to supplement TAT Broth.

Dissolve 40 mL of Tween® 20 in 960 mL of purified water by mixing while heating in a water bath at 49 °C ± 2 °C. Add 25 g of TAT Broth (REF 402100). Heat for about 30 min with occasional agitation to obtain solution. Mix and dispense the medium into suitable containers. Sterilize in the autoclave at 121 °C for 15 minutes.

5 – PHYSICAL CHARACTERISTICS

Appearance

Clear, yellow to yellow-green viscous liquid with a light typical smell

Tween® 20 is FU, USP, Ph Eur, FCC, NF grade; CAS N° 9005-64-5

6 - MATERIALS PROVIDED - PACKAGING

| Product | Type | REF | Pack |
|-----------|-------------------|----------|--------|
| Tween® 20 | Liquid supplement | 42120501 | 100 mL |

7 - PRECAUTIONS AND WARNINGS











- Tween® 20 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® 20 is not classified as hazardous; consult the Safety Data Sheet.
- Do not use Tween® 20 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).

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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.

