



## SCDM w/ Tween 80 and Lecithin

M1838I

### Intended Use:

Recommended for *detection and identification of Escherichia coli* in cosmetic products. The composition and performance criteria are in accordance with BS EN ISO 21150:2015

### Composition\*\*

BS EN ISO 21150:2015 Specification- SCDM w/ Tween 80 and Lecithin		SCDM w/ Tween 80 and Lecithin -M1838I	
Ingredients	g / L	Ingredients	g / L
Tryptone	17.000	Tryptone	17.000
Soya peptone	3.000	Soya peptone	3.000
Sodium chloride	5.000	Sodium chloride	5.000
Dipotassium hydrogen phosphate	2.500	Potassium hydrogen phosphate	2.500
Dextrose(Glucose)	2.500	Dextrose(Glucose)	2.500
Lecithin	1.000	Lecithin	1.000
Polysorbate 80 (Tween 80)	7.000	Polysorbate 80 (Tween 80)	7.000
Final pH ( at 25°C)	7.2±0.2	Final pH ( at 25°C)	7.2±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 38.0 grams in 1000 ml purified / distilled water. Heat if necessary to dissolve the medium completely. Dispense into tubes or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Principle And Interpretation

Tryptone Soya Broth with Lecithin for the detection and enumeration of microorganisms present on surfaces of sanitary importances (1,2). SCDM w/ Tween 80 and Lecithin is recommended by ISO Committee (3). Tryptone and Soya peptone provide nitrogenous, carbonaceous compounds, long chain amino acids and other nutrients essential for microbial replication. Lecithin and polysorbate 80 (Tween 80) are neutralizers reported to inactivate residual disinfectants from where the sample is collected (4). Lecithin neutralizes quaternary ammonium compounds and polysorbate 80 neutralizes phenolic disinfectants, hexachlorophene, formalin and with lecithin ethanol (5). Collection of samples from areas before and after the treatment with disinfectant evaluates cleaning procedures in environmental sanitation.

### Type of specimen

Cosmetics samples

### Specimen Collection and Handling

For cosmetics samples, follow appropriate techniques for sample collection and processing as per guidelines (3). After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

### Limitations

1.This medium is general purpose medium and may not support the growth of fastidious organisms.

### Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

### Quality Control

Please refer disclaimer Overleaf.

**Appearance**

Cream to yellow homogeneous free flowing powder

**Colour and Clarity of prepared medium**

Light yellow coloured clear to slightly opalescent solution without any precipitate.

**Reaction**

Reaction of 3.8% w/v aqueous solution at 25°C pH : 7.3±0.2

**pH**

7.00-7.40

**Cultural Response**

Cultural characteristics observed after an incubation at 30-35°C for 18-24hrs.

Organism	Inoculum (CFU)	Growth
<i>Staphylococcus aureus</i> subsp <i>aureus</i> ATCC 6538 (00032*)	50 -100	luxuriant
<i>Staphylococcus aureus</i> subsp <i>aureus</i> ATCC 25923 (00034*)	50 -100	luxuriant
<i>Escherichia coli</i> ATCC 8739 (00012*)	50 -100	luxuriant
<i>Escherichia coli</i> ATCC 25922 (00013*)	50 -100	luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 9027 (00026*)	50 -100	luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853 (00025*)	50 -100	luxuriant

Key : (\*) Corresponding WDCM numbers.

**Storage and Shelf Life**

Store between 10-30°C in a tightly closed container and the prepared medium at 15-30°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

**Disposal**

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (6,7).

**Reference**

1. Brummer, 1976, Appl. Environ. Microbiol., 32:80.
2. Favero (Chairman), 1967, Biological Contamination Control Committee, a state of the art report., Am. Assoc. for contamination control.
3. Cosmetics — Microbiology — Detection of *Escherichia coli* International Organization for Standardization BS EN ISO 21150:2015
4. Hall and Hartnett, 1964, Public Hlth. Rep., 79:1021.
5. MacFaddin J.F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.
6. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
7. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

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**Disclaimer :**

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