

### Specification

Solid medium used for the detection and enumeration of aerobic mesophilic bacteria, in cosmetic products with and without preservatives.

### Presentation

20 prepared plates  
90 mm  
with: 21 ± 2 ml

#### Packaging Details

1 box with 2 packs of 10 plates/pack. Single cellophane.

#### Shelf Life

3 months

#### Storage

2-14 °C

### Composition

Composition (g/l):

Tryptone.....	15.00
Soy peptone.....	5.00
Polysorbate 80.....	15.00
Dextrose.....	5.50
Sodium chloride.....	4.00
Sodium lauryl sulfate.....	1.56
Lecithin.....	1.00
L-Cystine.....	0.70
Sodium sulfite.....	0.20
Agar.....	15.00

### Description /Technique

Modification of the Eugon LT 100 medium, in which Triton® X-100 (Octoxynol 9) has been replaced by sodium lauryl sulfate and the concentration of polysorbate 80 has been increased to maintain dispersing capacity.

A 1:10 dilution of the sample is prepared using Eugon broth if the sample is soluble in water. If the sample is non-water soluble, it must be emulsified with a suitable agent (e.g. Polysorbate 80) Once emulsified the sample is added to a suitable volume of Eugon broth (e.g. 1:10). The pour plate or spread plate technique can be adopted with unfilterable samples.

If the sample is filterable it is recommended filtering through a membrane filter with a nominal pore size no greater than to 0.45 µm and washing with a defined volumes of water or diluent (Universal Diluent). Immediately transfer the membrane to a plate of Eugon Agar. The inoculated plates are incubated at 32,5 ± 2,5°C for 48 to 72 hours and the the colonies are, then, counted.

### Quality control

#### Physical/Chemical control

Color : Straw-coloured yellow      pH: 7.0 ± 0.2 at 25°C

#### Microbiological control

Inoculate:Practical range 100 ± 20 CFU. Min. 50 CFU (Productivity).

Microbiological control according to ISO 11133:2014/A1:2018.

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

Aerobiosis. Incubation at 32.5 ± 2.5 °C, reading after 24-48 h

#### Microorganism

*Salmonella typhimurium* ATCC® 14028, WDCM 00031

*Candida albicans* ATCC® 10231, WDCM 00054

*Aspergillus brasiliensis* ATCC® 16404, WDCM 00053

*Staphylococcus aureus* ATCC® 6538, WDCM 00032

*Escherichia coli* ATCC® 8739, WDCM 00012

*Ps. aeruginosa* ATCC® 9027, WDCM 00026

#### Growth

Good (≥70%)

Good (≥70%)

Good (≥70%)

Good (≥70%)

Good (≥70%)

Good (≥70%)

#### Sterility control

Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH.

Check at 7 days after incubation in same conditions.

## Bibliography

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