

Reference:

**BGWR3012** 

A.B.E. - Technical Data Sheet

Product: Eugon LT100 Broth - 3L

## **Specification**

Liquid medium used for the enrichment of aerobic bacteria including *E. coli*, in cosmetic products with and without preservatives according to ISO standards.

#### **Presentation**

3 Prepared Bags /3 L Bags

with: 3000 ± 10 ml

**Packaging Details** 

1 box with 3 bags of 3L.

PVC plasticizer free sterile bag with: 1 vial stopper + 1

penetrable cap. Dimensions: 23 x 32 cm. For use in food testing.

**Shelf Life** Storage

16 months 8-25°C

## Composition

Composition (g/l):	
Tryptone	15.00
Soy peptone	
Polysorbate 80	
Dextrose	5.50
Sodium chloride	
Lecithin	1.00
Triton® X-100	1.00
L-Cysteine HCI	0.70
Sodium sulfite	
Oddiam Same	0.20

# **Description / Technique**

Description:

Eugon LT 100 Broth is a general culture medium that allows the growth of aerobic, and microaerophilic bacteria. Some anaerobic microorganisms will grow, due to the low Eh potential generated by the cysteine and sodium sulfite components.

The main use of this medium is for the total enumeration of microorganisms in cosmetic products by the Most Probable Number (MPN) method. The Triton® X-100 included in the formula enhances the release of microorganisms from the slack matrix of the cosmetic

Lecithin and polysorbate act as neutralizers of preservatives like quaternary ammonium compounds, phenol and aldehydes derivatives.

A 1:10 dilution of the sample is prepared using directly Eugon broth if the sample is soluble in water. If the sample is non-water soluble, it must 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). If the sample is filterable it is recommended filtering it through a membrane filter with a nominal pore no greater than to 0,45  $\mu$ m and washing it with defined volumes of water or diluent (Maximum Recovery Diluent). Immediately transfer the membrane to a suitable volume of the Eugon broth. The inoculated broth is incubated at 32,5  $\pm$  2,5°C for 20-72 hours.

If enumeration by the MPN method is being carried out proceed as follows:

Prepare serial tenfold dilutions bank of the sample. Inoculate, incubate and enumerate as per the Most Probable Number Protocol. Carry out enumeration according to the appropriate tables in each case.

Inoculate according to final purpose, samples and validated methods.

Each Bag is intended for use with an automatic dispenser in laboratories requiring large volumes of broth media or diluent.

Discard any partially used bag to avoid contamination.

The bag has multiple connection points: 1 penetrable cap (injection port) latex-free polycarbonate, for any additive injection required. And an injection (vial stopper) to connect to any standard equipment laboratory dosing with a connector.

Once completely empty, the bag can be disposed of along with normal plastic (PVC).

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# **Quality control**

#### Physical/Chemical control

Color : Yellowish pH:  $7 \pm 0.2$  at  $25^{\circ}$ C

### Microbiological control

Prepare tubes - Inoculate: Practical range 100±20 CFU; Min. 50 CFU (Productivity).

Microbiological control according to ISO 11133.

Aerobiosis. Incubation at 30-35°C. Reading at 18-72h

Microorganism	Growth
Escherichia coli ATCC® 8739, WDCM 00012	Good
Salmonella typhimurium ATCC® 14028, WDCM 00031	Good
Bacillus subtilis ATCC® 6633, WDCM 00003	Good
Stph. aureus ATCC® 25923, WDCM 00034	Good
Stph. epidermidis ATCC® 12228, WDCM 00036	Good
Ps. aeruginosa ATCC® 27853, WDCM 00025	Good

## **Sterility Control**

Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH Check at 7 days after incubation in same conditions

## **Bibliography**

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- . ISO 11133:2014. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- $\cdot$  ISO 16212 Standard (2017) Cosmetics Microbiology Enumeration of yeast and mould.
- · ISO 21149 Standard (2017) Cosmetics Microbiology Enumeration and detection of aerobic mesophilic bacteria.
- · ISO 21150 Standard (2015) Cosmetics Microbiology Detection of Escherichia coli.
- · ISO 22717 Standard (2015) Cosmetics Microbiology Detection of Pseudomonas aeuruginosa.
- · ISO 22718 Standard (2015) . Cosmetics Microbiology Detection of Staphylococcus aureus.
- · WILLIAMSON, P. & A.M. KLIGMAN (1965) A new method for the quantitative investigation of cutaneous bacteria. J. Inv. Dermatol. 45:498-503.

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