

EUGON LT 100 BROTH (100 ML)

INTENDED USE:

Eugonic LT 100 Broth Base is recommended for the enrichment and detection of mesophilic aerobic bacteria present in cosmetic products. The composition and performance criteria of the medium are as per the specifications laid down in ISO 21149

PRINCIPLE AND INTERPRETATION:

Casein enzymic hydrolysate and papaic digest of soyabean meal provide the nitrogen, vitamins and amino acids, which supports the growth of fastidious microbial species. The high concentration of glucose is the energy source for rapid growth of bacteria. L-Cystine and sodium sulphite are added to stimulate growth. Sodium chloride maintains the osmotic balance of the media. The high carbohydrate content along with high sulfur (cystine) content improves growth with chromogenicity. Lecithin and polysorbate 80 in Eugonic LT 100 Medium w/o Tween 80 neutralize antimicrobial agents hence this medium can be used as a neutralizing diluent.

COMPOSITION:

| Ingredients | Gr/Liter |
|--------------------------------|----------|
| Casein enzymic hydrolysate | 15 gr |
| Papaic digest of soyabean meal | 5 gr |
| Sodium chloride | 4 gr |
| L-Cystine | 0,7 gr |
| Sodium sulphite | 0,2 gr |
| Glucose | 5,5 gr |
| Egg lecithin | 1 gr |
| Tritox X-100 | 1 gr |
| Tween 80 | 5 gr |

***Formula adjusted, standardized to suit performance parameters

pH: 7,0 ± 0,2

PRECAUTIONS:

For professional use only. Do not use tubes if they show evidence of microbial contamination, discoloration or other signs of deterioration.

TEST PROCEDURE:

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 µm and washing it with defined volumes of water or diluent (Art. No. 02-510 Maximum Recovery Diluent). Immediately transfer the membrane to a suitable volume of the Eugon broth. The inoculated broth is incubated at 32,5 ± 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.

QUALITY CONTROL:**1.Sterility Control:**

Incubation 48 hours at 30-35°C and 72 hours at 20-25°C: NO GROWTH

2.Physical/Chemical Control

pH: 7,0 ± 0,2

Apperance: Yellow

3.Microbiological Control: Incubation at a temperature of 35±2°C and observed after 18-24 hours.

RTA.KK.155 Revision Date/Revision Number:-/0 Issue Date: 17.05.2016

| Microorganism | Inoculum (CFU) | Results |
|--|----------------|---------|
| | | Growth |
| <i>Staphylococcus aureus</i> ATCC 25923 | 10-100 | Good |
| <i>Pseudomonas aeruginosa</i> ATCC 9027 | 10-100 | Good |
| <i>Bacillus subtilis</i> ATCC 6633 | 10-100 | Good |
| <i>Escherichia coli</i> ATCC 8739 | 10-100 | Good |
| <i>Streptococcus pyogenes</i> ATCC 19615 | 10-100 | Good |
| <i>Candida albicans</i> ATCC 10231 | 10-100 | Good |

LIMITATIONS OF THE PROCEDURE:

Tryptic Soy Broth is a universal enrichment and isolation medium for many nonclinical procedures. In clinical microbiology, it is mainly used for suspending cultures for susceptibility tests and for the preparation of inocula in quality control test procedures. Growth obtained in this medium must be subcultured onto appropriate solid media to obtain pure cultures which afterwards can be identified with methods appropriate for the isolates. Tryptic Soy Broth is not the appropriate medium for the cultivation of fastidious microorganisms (e.g., Haemophilus or Neisseria spp.) and for the detection and recovery of strict anaerobes. Fluid Thioglycollate Media should be used for the cultivation of strict anaerobes.

STORAGE CONDITIONS AND SHELF LIFE:

Store the prepared medium at 2 - 12°C. Use before expiry date on the label. Do not use beyond stated expiry date.

DISPOSAL:

Incubated medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected tube should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.












PACKAGING:

Katalog Number: 01146

Content/Packaging: Screw cap x 20 piece /box

REFERENCES:

- 1.Pelczar and Vera J., 1949, Milk Plant Monthly 38:30
- 2.Frank H. A., 1955, J. Bacteriol., 70:269.
- 3.MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams & Wilkins, Baltimore, Md.
- 4.ISO 21149 (2006) Cosmetics-Microbiology- Enumeration and detection of aerobic mesophilic bacteria.

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|---|-------------------|---|-----------------------------------|---|---------------------|
|  | Aseptic Sterile |  | Use by |  | Look at user manual |
|  | Batch Code |  | Temperature Limitation |  | Manufacturer |
|  | Catalogue Number |  | Do not reuse | | |
|  | Negative Controls |  | Contains sufficient for <n> tests | | |
|  | Positive Controls | | | | |