

## Eugonic LT 100 Broth

### Intended use

Recommended for activation of fastidious organisms.

### Composition\*\*

Ingredients	g / L
Tryptone	15.000
Soya peptone	5.000
Glucose (Dextrose)	5.500
Sodium chloride	4.000
Sodium sulphite	0.200
L-Cystine	0.700
Egg lecithin	1.000
Triton X-100	1.000
Polysorbate 80 (Tween 80)	5.000
Final pH ( at 25°C)	7.0±0.2

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

### Directions

Label the ready to use LQ208 bottle. Inoculate the sample and Incubate at specified temperature and time.

### Principle and Interpretation

Eugonic LT 100 Medium Base was developed by Pelczar and Vera (1) for cultivation of fastidious organisms like *Brucella*. Eugon media were developed to obtain eugonic (luxuriant) growth of fastidious microorganisms like *Brucella* which are otherwise difficult to cultivate (2). The unenriched medium supports rapid growth of lactobacilli associated with cured meat products, dairy products and other foods. Eugonic media is quite similar to Tryptone Soya Agar (MP290) but more bacterial propagation is expected on Eugonic media. Organisms like *Bordetella* and *Neisseria* form minute colonies on Tryptone Soya Agar (MP290). They may become large on Eugon Media because large amount of sulfur and carbon sources have been added in addition to the Tryptone Soya Agar (MP290) formula. The composition of the medium is as per ISO (3) for the detection of mesophilic aerobic bacteria from cosmetic products.

Tryptone and soya peptone provide the nitrogen, carbon compounds, 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 Broth neutralize antimicrobial agents hence this medium can be used as a neutralizing diluent (4).

### Type of specimen

Clinical samples - urine, faeces, Cosmetic samples

### Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (5,6).

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

### Warning and Precautions

In Vitro diagnostic use. For professional use only. 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 clinical specimens. Safety guidelines may be referred in individual safety data sheets.

## Limitations

1. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.
2. Further biochemical and serological tests must be carried out for confirmation.

## 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

### Appearance

Sterile clear Eugonic LT 100 Broth in glass bottle.

### Colour

Yellow coloured clear solution

### Quantity of Medium

10ml of medium in glass bottle.

### pH

6.80-7.20

### Sterility Test

Passes release criteria

### Cultural Response :

Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours (fungal cultures incubated at 25-30°C for 2-7 days).

Organism	Inoculum (CFU)	Growth
<i>Bacillus pumilus</i> ATCC 14884	50-100	good
<i>Candida albicans</i> ATCC 26790	50-100	good
<i>Lactobacillus fermentum</i> ATCC 9338	50-100	good
<i>Streptococcus pneumoniae</i> ATCC 6303	50-100	good-luxuriant (under 3-5% CO <sub>2</sub> )
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	good-luxuriant (under 3-5% CO <sub>2</sub> )
<i>Staphylococcus aureus</i> subsp.aureus ATCC 25923 (00034*)	50-100	good-luxuriant
<i>Staphylococcus aureus</i> subsp.aureus ATCC 6538 (00032*)	50-100	good
** <i>Bacillus spizizenii</i> ATCC 6633 (00003*)	50-100	good
^ <i>Pseudomonas paraaeruginosa</i> ATCC 9027 (00026*)	50-100	good
<i>Escherichia coli</i> ATCC 8739 (00012*)	50-100	good
<i>Candida albicans</i> ATCC 10231 (00054*)	50-100	good
<i>Neisseria meningitidis</i> ATCC 13090	50-100	good

Key: (\*) Corresponding WDCM Numbers

^ Formerly known as *Pseudomonas aeruginosa*

\*\*Formerly known as *Bacillus subtilis* subsp. *spizizenii*

## Storage and Shelf Life

Store between 15-30°C. Use before expiry date on the label. 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 clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (5,6).

## Reference

1. Pelczar and Vera J., 1949, Milk Plant Monthly 38:30.
2. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams& Wilkins, Baltimore, Md.
3. ISO 21149 (2006) Cosmetics-Microbiology- Enumeration and detection of aerobic mesophilic bacteria.
4. Frank H. A., 1955, J. Bacteriol., 70:269.
5. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
6. 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.

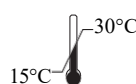
Revision : 01/2024



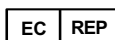
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