**EUGON BROTH**

**INTENDED USE**

Eugon Broth is used to obtain luxuriant cultures (eugonic) with a wide variety of microorganisms including the most fastidious, with yeasts and with molds. It is used for the detection and growth of lactic acid bacteria from meats and other food products. It is appropriate in industrial microbiology for antigen production. Eugon Broth can also be used to detect microbial contamination in packaging materials destined for food products, cosmetics and pharmaceuticals.

**HISTORY**

The medium was recommended by Vera for obtaining excellent cultures of bacteria known to be difficult to grow, e.g. *Neisseria*, *Haemophilus* and *Brucella*.

**PRINCIPLES**

Eugon Broth is composed of a mixture of peptones, cystine, glucose and salts, which contribute to the growth of microorganisms, whether or not they are fastidious.

**PREPARATION**

- Suspend 30.5 g of dehydrated medium (BK068) in 1 liter of distilled or deionized water.
- Slowly bring to boiling, stirring until complete dissolution.
- Dispense in tubes or flasks.
- Sterilize in an autoclave at 121°C for 15 minutes.

**INSTRUCTIONS FOR USE**

- Inoculate the medium with purified cultures or with other types of mixed microflora inoculum.
- Incubate at the optimal required temperature, aerobically or else in a CO₂-enriched atmosphere, depending on the microorganisms to be cultured.

**RESULTS**

Growth results in turbidity, due to microbial multiplication.
TYPICAL COMPOSITION
(can be adjusted to obtain optimal performance)

For 1 liter of medium:
- Tryptone ......................................................................................... 15.0 g
- Papaic digest of soybean meal ........................................................ 5.0 g
- Glucose ........................................................................................... 5.0 g
- Sodium chloride ............................................................................... 4.0 g
- L-cystine ........................................................................................... 0.3 g
- Sodium sulfite .................................................................................. 0.2 g
- Sodium citrate .................................................................................. 1.0 g

pH of the ready-to-use medium at 25°C: 7.0 ± 0.2.

QUALITY CONTROL
- Dehydrated medium : cream-white powder, free-flowing and homogeneous.
- Prepared medium : amber solution, limpid.
- Typical culture response after 48 hours of incubation at 30°C\(^{(1)}\) or 37°C (inoculum \(\leq 10^2\) microorganisms):

<table>
<thead>
<tr>
<th>Microorganisms</th>
<th>ATCC(^{®})</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lactobacillus plantarum</td>
<td>8014</td>
<td>good, score 2</td>
</tr>
<tr>
<td>Staphylococcus aureus</td>
<td>25923</td>
<td>good, score 2</td>
</tr>
<tr>
<td>Candida albicans</td>
<td>10231</td>
<td>good, score 2</td>
</tr>
<tr>
<td>(^{(1)}) Aspergillus brasiliensis</td>
<td>DSM 1988</td>
<td>good, score 2</td>
</tr>
</tbody>
</table>

STORAGE / SHELF LIFE

Dehydrated medium : 2-30°C.
- The expiration date is indicated on the label.

Prepared medium (benchmark value\(^{*}\)):
- Media in tubes or vials : 6 months at 2-8°C.

PACKAGING

Dehydrated medium:
- 500 g bottle BK068HA
BIBLIOGRAPHY


*Benchmark value refers to the expected shelf life when prepared under standard laboratory conditions following manufacturer’s instructions. It is provided as a guide only and no warranty, implied or otherwise is associated with this information.

The information provided on the package take precedence over the formulations or instructions described in this document. The information and specifications contained in this technical data sheet date from 2010-01-12. They are susceptible to modification at any time, without warning.