

Eugon Agar (i23336)

A general-purpose medium used for cultivating a wide variety of microorganisms.

Industry: Food / Clinical

Principles & Uses

Eugon Agar is a versatile medium designed for the cultivation of a wide range of microorganisms. It supports robust growth, particularly of bacteria that are typically more challenging to cultivate, such as *Haemophilus*, *Neisseria*, *Pasteurella*, *Brucella*, and *Lactobacillus*. This medium finds applications in various fields, including medical bacteriology and food testing, such as the examination of cured meats, dairy products, and other foods. Additionally, Eugon Agar is suitable for the cultivation of delicate pathogenic microorganisms and for obtaining high bacterial culture counts in antigen and vaccine preparation.

Eugon Agar is enriched with L-Cystine and sodium sulfite to stimulate growth. Peptones supply essential nutrients, including nitrogen, vitamins, minerals, and amino acids. Glucose serves as the fermentable carbohydrate for carbon and energy. Sodium chloride maintains the osmotic balance, while bacteriological agar solidifies the medium. Blood (5-10% v/v) can be added to enhance the growth of fastidious microorganisms. The Polyenrichment supplement is specially formulated for *Neisseria*, *Francisella*, and *Brucella*.

Composition (gr/L)

Proteose Peptone No.3 7.5, Pancreatic digest of Casein 7.5, Soy Peptone 5, Sodium chloride 4, L-Cystine 0.7, Sodium Sulfite 0.2, Glucose 5.5, Agar 15. Final pH at 25°C 7.0 ± 0.2

Preparation from dehydrated Powder

Suspend 45.4g of the medium in 1 Liter of distilled water. Mix thoroughly. Autoclave at 121°C for 15 minutes.

Quality Control

Dehydrated Appearance: Beige, homogeneous, free-flowing.

Prepared Appearance: Light amber, slightly opalescent, cystine precipitate may be visible.

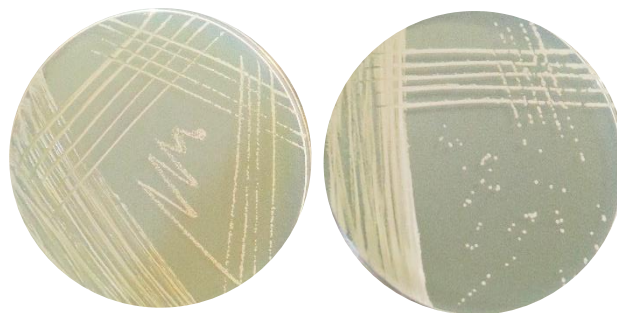
Reaction of 4.54% Solution at 25°C: pH 7.0 ± 0.2

Cultural Response

For *Candida albicans* and *Aspergillus brasiliensis* inoculate using fresh broth cultures and incubate at 30 ± 2°C for 18-48 hours. For all other cultures inoculate and incubate at 35 ± 2°C for 18-48 hours.

Organism (ATCC*)	Recovery
<i>Candida albicans</i> (26790)	Good
<i>Streptococcus pyogenes</i> (19615)	Good
<i>Shigella flexneri</i> (12022)	Good
<i>Aspergillus brasiliensis</i> (<i>niger</i>) (16404)	Fair to good

*ATCC is a registered trade mark of the American Type Culture Collection.



S. pyogenes (left) and *C. albicans* (right) on eugon agar without blood.

Storage

Keep the container at 15-30 °C. Store prepared medium at 2-8 °C.