

Reference : 01-298 Product : HC AGAR BASE Scharlau Microbiology - Technical data sheet



Specification

Selective solid medium for the enumeration of yeast and molds in cosmetic products.

Formula * in g/L

| 2,50 |
|-------|
| 5,00 |
| 20,00 |
| 3,50 |
| |
| 1,40 |
| |

Final pH 7,0 ±0,2 at 25 °C

* Adjusted and /or supplemented as required to meet performance criteria

Directions

Suspend 54,5 g in 1 L of distilled water and and bring to the boil. Add 20 ml of Polysorbate 80 (Ref. 06-088) and homogenize. Distribute in suitable containers and sterilize by autoclaving at 121°C for 15 minutes.

Description

The HC Agar was developed by Mead & O'Neill in 1986 to attain reliable enumeration of moulds in cosmetic products in short time. The nutrient basis of the medium s the dextrose with the peptones and yeast extract that supplies the energy, nitrogen and vitamins and growth factors. The inorganic ions are given by ammonium chloride and magnesium sulphate and both phosphates acts buffering the medium. Sodium carbonate and polysorbate are detoxifiers and neutralising preservatives and others toxic substances. The selectivity against bacteria is due to the chloramphenicol.

Technique

Suitable sample is inoculated into surface of medium plates per duplicate and incubate aerobically at 30±1°C for 72 hours. Count colonies of moulds from duplicate plates and record average count of mould count per g or mL of sample.

Quality control

| Incubation temperature: | 30 °C ± 1 | Incubation time: ≥ 72h | |
|---|----------------|------------------------|--|
| Inoculum: Practical range 100 ± 20 CFU. Min. 50 CFU (Productivity) / 10 ⁴ -10 ⁶ CFU (Selectivity) according to ISO | | | |
| 11133:2014/Amd 1:20 Microorganism | OT8 . Growth | Remarks | |
| Bacillus subtilis ATCC [®] 6633 | Inhibited | - | |
| Aspergillus niger ATCC [®] 16404 | Productivity > | 0.50 - | |
| Candida albicans ATCC [®] 10231 | Productivity > | 0.50 - | |

References

.MEAD, C. & J. O'NEILL (1986) A three-day mould as- say for cosmetics and toiletries. J. Soc. Cosmet. Chem. 37:49-57. . ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and

performance testing of culture media.

Pseudomonas aeruginosa ATCC[®] 27853

Staphylococcus aureus ATCC[®] 25923

Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).

Partial Inhibited

Inhibited