

**Product :**
BEERENS COSMETIC DILUENT**Specification**

Diluent used to neutralize preservative systems in routine examination of cosmetic products.

Formula * in g/L

Lecithin.....	3,00
Sodium thiosulfate.....	5,00
L-Histidine HCl.....	1,00
Peptone.....	1,00
Sodium chloride.....	8,50
Dipotassium phosphate.....	1,00

Final pH 7,0 ±0,2 at 25 °C

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

Directions

Add 30 mL of Polysorbate 80 (Art. No. TW0080) and then 19.5 g of powder in 1 L of distilled water previously preheated to 50 ± 2 °C. Bring to a boil with constant stirring until completely dissolved (80 °C - 100 °C). Allow to cool slightly and pour the medium into suitable containers. Sterilize in an autoclave at 121 °C for 15 min. Note: depending on the heating temperature, it may take up to 30 minutes to completely dissolve.

Description

Cosmetic Beeren's Diluent has all the necessary compounds to neutralize most of the chemical agents included in cosmetic products to maintain and preserve it free of microorganisms.

It complies with the EU recommendation that states that before any microbiological examination, a treatment to remove all growth inhibitor systems in cosmetics must be performed.

However, this standard also declares that later dilutions must be performed in less aggressive media, that may be considered as an enrichment and revitalization system, and suggests the use of Lethen Broth or Lethen Modified Broth.

Quality control

Incubation temperature: 35°C ±2,0

Incubation time: Recovery 24 h

Inoculum: 100-1000 CFU / tube (Productivity) at T0, 45 minutes and 1 h. (20-25°C) ; according ISO 11133:2014/Amd 1:2018

Microorganism	Growth	Remarks
<i>Staphylococcus aureus</i> ATCC® 6538	Good	Recovery ±30% T0 in TSA
<i>Bacillus subtilis</i> ATCC® 6633	Good	Recovery ±30% T0 in TSA
<i>Escherichia coli</i> ATCC® 8739	Good	Recovery ±30% T0 in TSA
<i>Salmonella typhimurium</i> ATCC® 14028	Good	Recovery ±30% T0 in TSA
<i>Pseudomonas aeruginosa</i> ATCC® 9027	Good	Recovery ±30% T0 in TSA
<i>Candida albicans</i> ATCC® 10231	Good	Recovery ±30% T0 in SDA

References

- BEERENS, H., RAMONS, C., LEMAIRE, D. (1976) Rev. Inst. Pasteur. Lyon. 9:127.
- BRIGIDI, P., MATTEUZZI, D. (1982) Il Farmaco Ed. Pr. 37:8:260.
- CEE (1976) Commission des Communautés Européennes. Groupe Spécial des Méthodes de Contrôle Microbiologique des Produits Cosmétiques: Limites Numériques Applicables au Contrôle Officiel de la Qualité Microbiologique des Produits Cosmétiques. XI/405A. ISPRA. 1976.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

Storage

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