



## Cosmetic Diluent of Beerens

Diluent for neutralizing preservatives in examination of cosmetics.

### DESCRIPTION

Cosmetic Diluent of Beerens is used for dissolving, suspending and diluting test samples.

It conforms to the recommendations in the Harmonized Pharmacopoeias and ISO 21149 for the neutralization of the antimicrobial properties of the product.

### TYPICAL FORMULA\*

	(g/l)
Dipotassium Phosphate	1.0
Sodium Chloride	8.5
Peptone	1.0
Lecithin	3.0
L-Histidine	1.0
Sodium Thiosulphate	5.0

Final pH 7.0 ± 0.2 at 25°C

\*Formula may be adjusted and/or supplemented as required to meet performance specifications;  
Grams per litre of purified water.

### METHOD PRINCIPLE

Dipotassium phosphate is the buffering agents. Sodium chloride maintains the osmotic balance. A low peptone content provides nitrogen, vitamins, minerals and amino acids to ensure the viability of the organisms. Lecithin, histidine and sodium thiosulphate are neutralizing agents.

Cosmetic Diluent of Beerens can be supplemented with tensioactive agents or inactivators of antimicrobial agents, such as polysorbate 80 (ref. 80031).

NOTE: Cosmetic Diluent of Beerens is not a culture medium. The minimal nutrient content does not allow significant growth of microorganisms.

### PREPARATION

Dehydrated medium Suspend 19.5 g of the powder in 1 liter of distilled or deionized water. Heat to boil shaking frequently until completely dissolved. If required, add 30 ml Tween 80 (polysorbate 80). Mix well and distribute into final containers. Sterilize in autoclave at 121°C for 15 minutes.

### TEST PROCEDURE

Dissolve or dilute the product to be examined (usually a 1 in 10 dilution is prepared) in Cosmetic Diluent of Beerens.

Use the suspensions within 2 hours or within 24 h if stored at 2-8°C.

Subculture onto the non-selective agar medium intended for the enumeration of the target microorganisms, such as TSA, by pour plate, surface spread or membrane filtration method.

### INTERPRETING RESULTS

Refer to the instructions for use of the agar medium used.

### STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed. Store the prepared medium in bottles or tubes at 2-8°C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

### SHELF LIFE

Dehydrated medium: 4 years.

**QUALITY CONTROL**

**Appearance of Dehydrated Medium:** Free-flowing, homogeneous, beige.

**Appearance of Prepared Medium:** Clear, pale yellow.

**Expected Cultural Response:**

Control strain		Inoculum	Incubation	Specification
<i>Bacillus subtilis</i>	WDCM 00003 (ATCC 6633; NCTC 10400)	10 <sup>3</sup> -10 <sup>4</sup> CFU	2 h / 22.5 ± 2.5°C	± 30% colonies of original count on TSA
<i>Candida albicans</i>	WDCM 00054 (ATCC 10231; NCPF 3179)			
<i>Escherichia coli</i>	WDCM 00012 (ATCC 8739; NCTC 12923)			
<i>Pseudomonas aeruginosa</i>	WDCM 00026 (ATCC 9027; NCTC 12924)			
<i>Salmonella</i> Thyphimurium	WDCM 00031 (ATCC 14028; NCTC 12023)			
<i>Staphylococcus aureus</i>	WDCM 00032 (ATCC 6538; NCTC 10788)			

**Growth Promotion Testing** The cultures are tested at Harmonized USP/EP/JP specified temperatures and incubation times. No marked increase or decrease in original colony forming unit (CFU) count.

Please refer to the actual batch related Certificate of Analysis (CoA).

**WARNING AND PRECAUTIONS**

**For professional use only.** Operators must be trained and have certain experience in the laboratory methods. Please read the instructions carefully before using this product. Reliability of assay results cannot be guaranteed if there are any deviations from the instructions in this document.

Consult the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

**DISPOSAL OF WASTE**

Disposal of waste must be carried out according to national and local regulations in force.











**BIBLIOGRAPHY**

1. European Pharmacopoeia 10th Ed. (2020) 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms.
2. United States Pharmacopoeia 42 NF 37 (2019) <62> Microbiological examination of non-sterile products: Test for specified microorganisms.
3. Japanese Pharmacopoeia 17th Ed. (2017) 4.05 Microbiological examination of non-sterile products: Test for specified microorganisms.
4. EN ISO 11133:2014+Amd1:2018. Microbiology of food, animal feed and water – Preparation, production, storage and performance testing of culture media.
5. ISO 21149:2017. Cosmetics – Microbiology – Enumeration and detection of aerobic mesophilic bacteria.

Product	Format	Packaging	Ref.
Cosmetic Diluent of Beerens	Powder	500 g	610329

There may be additional product ref. numbers as well. For an updated listing of available products, visit [liofilchem.com](http://liofilchem.com)

**TABLE OF SYMBOLS**

	Batch code
	Catalogue number
	Manufacturer
	Use by
	Fragile, handle with care
	Temperature limitation
	Contains sufficient for <n> tests
	Consult Instruction For Use
	Do not reuse
	Keep away from light

This IFU document and the SDS are available from the online Support Center:

[liofilchem.com/ifu-sds](http://liofilchem.com/ifu-sds)



**LIOFILCHEM® s.r.l.**

Via Scozia, 64026 Roseto degli Abruzzi (TE) Italy  
 Tel. +39 0858930745 Fax +39 0858930330

[www.liofilchem.com](http://www.liofilchem.com)

[liofilchem@liofilchem.com](mailto:liofilchem@liofilchem.com)