

LPT DILUTION BROTH BASE

Liquid medium used for the sample preparation in the microbiological analysis of cosmetic products.

TYPICAL FORMULA (g/L)

| | |
|--------------------------------|-----|
| Sodium Thiosulphate | 5.0 |
| Tryptic Digest of Casein | 1.0 |
| Sodium Chloride | 8.5 |
| Disodium Hydrogen Phosphate | 8.0 |
| Potassium Dihydrogen Phosphate | 1.5 |
| L- Histidine HCl | 1.0 |
| Final pH 7.0 ± 0.2 | |

DESCRIPTION

LPT DILUTION BROTH BASE is recommended for the homogenisation of the samples and for the preparation of decimal dilutions in the microbiological analysis of cosmetic products. Final medium will contain some compounds which inhibit the activity of preservatives contained in cosmetic products.

PRINCIPLE

Sodium thiosulphate is an indicator of H₂S. Tryptic digest of casein provides amino acids and proteins. Sodium chloride maintains the osmotic balance of the medium. Disodium hydrogen phosphate and potassium dihydrogen phosphate constitute the buffer system of the medium. L- Histidine and the addition of Lecithin Supplement and Tween 80 Supplement inhibit the activity of preservatives contained in cosmetic products.

PREPARATION

Suspend 25.0 g of powder in 1 litre of distilled or deionized water. Heat until completely dissolved. Add 30 mL of Lecithin Supplement (ref. 80007) and 30 mL of Tween 80 Supplement (ref. 80031). Dispense into culture tubes. Autoclave at 121°C for 15 minutes.

TECHNIQUE

Homogenise 10 g or 10 mL of products in 90 ml of medium. In case use this suspension to prepare further decimal dilutions, and inoculate a solid medium to enumerate the contaminating microorganisms. Incubate according to the characteristics of the microorganisms to detect.

INTERPRETATION OF RESULTS

Count the colonies developed in/ on the solid medium and refer the results as UFC/ g or mL of product.

STORAGE

The powder is very hygroscopic: store the powder at 10-30°C, in a dry environment, in its original container tightly closed until the expiry date indicated on the label or until signs of deterioration or contamination are evident. Store prepared media at 2-8°C.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. The product must be used only by properly trained operators.

DISPOSAL of WASTE

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

REFERENCES

1. La Microbiologia nell'Industria Cosmetica. UNIPRO, aprile 1990, vol. 1. Ricerche e Tecnologie Cosmetiche.



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PRODUCT SPECIFICATIONS

NAME

LPT DILUTION BROTH BASE

PRESENTATION

Dehydrated culture medium

STORAGE

10-30°C

PACKAGING

| Code | Content | Packaging |
|--------|---------|-----------------------------------|
| 610325 | 500 g | 500 g of powder in plastic bottle |
| 620325 | 100 g | 100 g of powder in plastic bottle |

pH OF THE MEDIUM

7.0 ± 0.2

USE

LPT DILUTION BROTH BASE is recommended for the homogenisation of the samples and for the preparation of decimal dilutions in the microbiological analysis of cosmetic products. Final medium will contain some compounds which inhibit the activity of preservatives contained in cosmetic products.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE of the MEDIUM

Dehydrated medium

Appearance: free-flowing, homogeneous.

Colour: light beige

Prepared medium

Appearance: clear

Colour: light to medium amber

SHELF LIFE









4 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 25 ± 1°C, in aerobiosis
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control
Inoculum for productivity: 10-100 CFU/ml
Incubation conditions: 18-24 hours at 36 ± 1°C

| Microorganisms | | Growth |
|-------------------------------|------------|--------|
| <i>Salmonella enteritidis</i> | ATCC 13076 | Good |
| <i>Salmonella typhimurium</i> | ATCC 14028 | Good |
| <i>Staphylococcus aureus</i> | ATCC 25923 | Good |
| <i>Staphylococcus aureus</i> | ATCC 6538P | Good |

TABLE OF SYMBOLS

| | | | |
|--|--|--|---|
|  Batch code |  Temperature limitation |  Manufacturer |  Contains sufficient for <n> tests |
|  Catalogue number |  Keep away from heat |  Use by |  Caution, consult accompanying documents |



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