

## EUGON LT 100 AGAR BASE

Dehydrated medium for count and isolation of mesophilic bacteria in cosmetics according to ISO 21149.

### TYPICAL FORMULA (g/L)

Tryptone	15.0
Soy Peptone	5.0
Dextrose	5.5
L- Cystine	0.7
Sodium chloride	4.0
Sodium Sulphite	0.2
Agar	15.0
Final pH	7.0 ± 0.2

### DESCRIPTION

**EUGON LT 100 AGAR BASE** is a medium used for count and isolation of mesophilic bacteria in cosmetics according to ISO 21149.

### PRINCIPLE

Tryptone and Soy Peptone supply amino acids and other nitrogenous substances to support bacterial growth. L-cystine is an essential amino acid that improves growth. Dextrose is incorporated as a source of energy and sodium chloride provides osmotic equilibrium. Sodium sulfite along with the cystine content improves growth with chromogenicity. **EUGON LT 100 Supplement**, containing the surfactants Triton X 100 and Tween 80, and Lecithin Supplement (ref. 80007) are added to the medium to increase the growth.

### PREPARATION

Suspend 45.4 g of the powder in 1 L of distilled or deionized water. Mix thoroughly. Add 6 mL of **Eugon LT 100 Supplement** (ref. 80048) and 10 mL of **Lecithin Supplement** (ref. 80007). Heat until completely dissolved. Autoclave at 121°C for 15 minutes.

### TECHNIQUE

Inoculate the medium by streaking the sample onto the surface of the agar plate or by the pour plate method or by the membrane filtration method. Incubate at 32.5 ± 2.5 °C for 48-72 hours.

### INTERPRETATION OF RESULTS

Count the number of colonies forming units and refer it to 1 mL of sample.

### 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 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. Pelczar and Vera. 1949. Milk Plant Monthly. 38:30.
2. Vera. 1947. J. Bacteriol. 54:14.
3. U.S. Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. 1999. Biosafety in microbiological and biomedical laboratories, 4th ed. HHS Publication No. (CDC) 93-8395. U.S. Government Printing Office, Washington, D.C.).



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## PRODUCT SPECIFICATIONS

### NAME

**EUGON LT 100 AGAR BASE**

### PRESENTATION

Dehydrated culture medium

### STORAGE

10-30°C

### PACKAGING

Code	Content	Packaging
610327	500 g	500 g of powder in plastic bottle
620327	100 g	100 g of powder in plastic bottle

### pH OF THE MEDIUM

7.0 ± 0.2

### USE

**EUGON LT 100 AGAR BASE** is a medium used for count and isolation of mesophilic bacteria in cosmetics according to ISO 21149.

### TECHNIQUE

Refer to technical sheet of the product.

### APPEARANCE of the MEDIUM

Dehydrated medium

Appearance: free-flowing, homogeneous.

Colour: beige

Prepared medium

Appearance: clear, may have a slight precipitate.

Colour: light amber

### SHELFLIFE

4 years

### QUALITY CONTROL

- Control of general characteristics, label and print
- Microbiological control  
Inoculum for productivity: 10-100 UFC/ml  
Incubation conditions: 18-24 hours at 35 ± 2°C

Microorganisms		Growth
<i>Aspergillus niger</i>	ATCC 16404	Fair to good
<i>Escherichia coli</i>	ATCC 25922	Good
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Good
<i>Candida albicans</i>	ATCC 10231	Good
<i>Staphylococcus aureus</i>	ATCC 25923	Good
<i>Enterococcus faecalis</i>	ATCC 19433	Good

### TABLE OF SYMBOLS

 Batch code	 Do not reuse	 Manufacturer	 Contains sufficient for <n> tests	 Temperature limitation
 Catalogue number	 Fragile, handle with care	 Use by	 Caution, consult accompanying documents	



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