

Eugon LT 100 Broth



Medium used for the cultivation and enumeration of a wide variety of microorganisms in cosmetic products with or without preservatives.

• CONTENTS (Liter)

Tryptone	15.0 g
Papaic Digest of Soybean Meal	5.0 g
Glucose	5.5 g
L-Cystine	0.7 g
Sodium Chloride	4.0 g
Sodium Sulfite	0.2 g
Lecithin	1.0 g
Tween 80	5.0 g

Final pH = 7.0 ± 0.2 at 25°C

• PROCEDURE

Suspend 36.4 G of powder in 1 L of distilled or deionized water. Add 2 vials of Triton X 100 supplement (MB-T1846). Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

Triton X 100 supplement

1 vial content (each vial is sufficient for 500 mL of medium)

Triton X 100 0.5 mL

• INTERPRETATION

Eugon LT 100 Broth is a medium used for the cultivation and enumeration of a wide variety of microorganisms in cosmetic products with or without preservatives. Tryptone and papaic digest of soybean meal provide nitrogen, carbon, amino acids and minerals. Glucose is the carbohydrate source. L-Cystine is an essential amino acid that stimulates growth. Sodium chloride maintains the osmotic balance. Sodium sulfite along with the L-Cystine improve bacterial growth. Lecithin and tween 80 neutralize a variety of preservatives or antiseptics. Lecithin neutralizes quaternary ammonium salts, while tween 80 neutralizes phenolic derivatives. Triton X-100 is a surfactant.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 32.5 ± 2.5°C for 20 - 72 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: moist appearance, with a tendency to clump

Color: yellow

Prepared medium

Appearance: clear after cooling

Color: amber

Incubation conditions: 32.5 ± 2.5°C / 20 - 72 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Escherichia coli</i>	25922	50-100	good
<i>Candida albicans</i>	10231	50-100	good
<i>Staphylococcus aureus</i>	25923	50-100	good
<i>Pseudomonas aeruginosa</i>	27853	50-100	good
<i>Bacillus subtilis</i>	9466	50-100	good

• STORE

The powder is very hygroscopic. Store the powder at 2 - 8°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Pelczar and Vera. 1949. Milk Plant Monthly. 38:30.
2. Quisno, R., Gibby, I. W., and Foster, M. J.. 1946. A neutralizing medium for evaluating the germicidal potency of the quaternary ammonium salts. American Journal of Pharmacy, 118:320-323
3. Vera. 1947. J. Bacteriol. 54:14.
4. NF EN ISO 21149 (T 75-602). September 2009. Cosmetics. Microbiology. Enumeration and detection of aerobic mesophilic bacteria.
5. NF EN ISO 11930 (T 75-600). June 2012. Cosmetics. Microbiology. Evaluation of the antimicrobial protection of a cosmetic product.

• PACKAGE

Cat. No : MB-E0933 Eugon LT 100 Broth	500 G
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