

LT 100 BROTH
Neutralising diluent and liquid culture medium
for the total microbial count in cosmetics with MPN technique

Typical formula (g/l)

Tryptone	15.0
Soy Peptone	5.0
Sodium Chloride	4.0
Glucose	5.5
Lecithin	1.0
Polysorbate (Tween [®]) 80	5.0
Triton X 100	1.0
Sodium Sulphite	0.2
L-Cystine	0.7

Directions

Suspend 37.4g in 1000ml of cold distilled water; heat to dissolve completely, distribute 9ml or 90ml in tubes or flasks and sterilise by autoclaving at 121°C for 15 minutes.

Final pH 7.0 ± 0.2

Description

LT 100 Broth is used for the total microbial count in cosmetics with MPN technique. Lecithin and Polysorbate 80 are included as neutralising of antimicrobial agents. Combined with Triton X 100 they assure a good dispersion of the sample into the liquid medium. LT 100 Broth may be used also as neutralising diluent.

Technique

1. Prepare the initial suspension of the sample by adding 1g or 1ml into 9ml of LT 100 Broth. Leave at room temperature for 2 hours.
2. Prepare the decimal dilutions of the initial suspension using LT 100 Broth.
3. Incubate the initial suspension and the decimal dilutions at 37°C for 24-48 hours and observe for the presence of growth.

The initial suspension and the decimal dilutions may be inoculated also into LT 100 Agar or Tryptic Soy Agar, for the total microbial count into a solid medium.

Packaging

4015811	LT 100 Broth	100 g (2.7 L)
4015812	LT 100 Broth	500 g (13.4 L)
4015814	LT 100 Broth	1005 kg (134 L)
552155L	LT 100 Broth	20 x 9 ml ready to use tubes
512155L	LT 100 Broth	6 x 45 ml ready to use flasks