

LT 100 agar (LT)

For microbiological control only

INTENDED USE

Isolation and enumeration of microorganisms in cosmetics.

This medium enables the isolation and enumeration of microorganisms in cosmetics.

It is recommended for the enumeration and the detection of aerobic mesophilic bacteria.

It complies with the requirements of the standard EN ISO 21149.¹

EXPLANATION AND PRINCIPLE

This medium favors the growth of most microorganisms.

The inclusion of lecithin and polysorbate 80 neutralizes the anti-bacterial activity of preservatives such as:

- phenyl derivatives,
- aldehydes,
- quaternary ammonium salts.

Triton X-100 disperses microorganisms.

COMPOSITION OF THE MEDIUM

Theoretical formula

This medium has been adjusted and/or supplemented according to the performance criteria required:

Casein peptone (bovine)	15 g
Soy peptone	5 g
Sodium chloride	4 g
Cystine	0.7 g
Sodium sulfite	0.2 g
Dextrose	5.5 g
Lecithin (eggs)	1 g
Polysorbate 80	5 g
Triton X-100 (Octoxynol)	1 g
Agar	15 g
Purified water	1 L
pH 7.0	

WARNINGS AND PRECAUTIONS

- **For microbiological control only.**
- **For professional use only.**
- This kit contains products of animal origin. Certified knowledge of the origin and/or sanitary state of the animals does not totally guarantee the absence of transmissible pathogenic agents. It is therefore recommended that these products be treated as potentially infectious, and handled observing the usual safety precautions (do not ingest; do not inhale).
- All samples and inoculated media should be considered infectious and handled appropriately. Aseptic technique and usual precautions for handling the microbial group studied should be observed throughout this procedure; refer to the Laboratory Biosafety Manual – WHO – Geneva – Latest edition, or the current regulations in the country of use.
- The media should not be used as manufacturing material or components.
- Do not use reagents after the expiry date.
- Do not use reagents if the packaging is damaged.
- Do not use plates which are contaminated or exude moisture.
- The medium must be used according to the procedure indicated in this package insert. Any change or modification in the procedure may affect the results.

REAGENTS AND MATERIALS REQUIRED BUT NOT PROVIDED**Reagents:**

- Eugon LT 100 broth (Ref. 42070 / 42613)

Materials:

- General microbiology laboratory equipment.
- Bacteriology incubator.

STORAGE CONDITIONS

- The media can be stored in their box at +2°C/+8°C until the expiry date.
- If not in the box, plates can be stored for 2 weeks at +2°C/+8°C in the cellophane sachet.

SPECIMENS

The medium is generally inoculated using a previously incubated suspension of the test sample prepared in Eugon LT 100 broth.

Refer to the instructions in the package insert for Eugon LT 100 broth and to the current standards.

PROCEDURE

1. Allow reagents to come to room temperature.
2. Dispense 0.2 mL to 0.5 mL of suspension on the surface of the medium.
3. Carefully spread the inoculum as rapidly as possible.
4. Incubate at +32.5°C ± 2.5°C for 72 ± 6 hours.

The user is responsible for choosing the appropriate incubation temperature for the intended use, in accordance with current standards.

RESULTS AND INTERPRETATION

- After incubation, observe the microbial growth.
- Count the colonies and only retain plates containing 30 to 300 colonies.

QUALITY CONTROL

The medium has been designed and developed to meet the most stringent quality requirements.

Each batch is controlled according to the requirements of the standard EN ISO 21149.¹

The results of the strains tested in the batch by batch quality control are given on the quality control certificate available on the technical library that can be accessed via our corporate website (www.biomerieux.com).

LIMITATIONS OF THE METHOD

- Growth depends on the requirements of each individual microorganism. It is therefore possible that certain strains which have specific requirements may not develop.
- Given the wide variety of samples studied, it is the responsibility of the user to validate this medium for its specific intended use. The neutralization of the specimen's antimicrobial properties must be checked and validated.

WASTE DISPOSAL

Unused reagents may be considered as non-hazardous waste and disposed of accordingly.









Dispose of used reagents as well as any other contaminated disposable materials following procedures for infectious or potentially infectious products.

It is the responsibility of each laboratory to handle waste and effluents produced, according to their nature and degree of hazardousness, and to treat and dispose of them (or have them treated and disposed of) in accordance with any applicable regulations.

LITERATURE REFERENCES

1. EN ISO 21149 - Cosmetics - Microbiology - Enumeration and detection of aerobic mesophilic bacteria.
2. BEERENS H. - Aspects critiques du contrôle microbiologique des cosmétiques - Parfums, cosmétiques arômes, 1976, vol. 9, p. 77-84.
3. BOURLIOUX P. - Evaluation et contrôle des produits cosmétiques - Labo-Pharma, 1975, vol. 240, p. 115-118.
4. QUISNO R. - A neutralizing medium for evaluating the germicidal potency of quaternary ammonium salts. - *Amer. J. Pharma.*, 1946, p. 320-323.
5. WILLIAMSON P. - A new method for the quantitative investigation of cutaneous bacteria. - *J. Invest. Dermat.*, 1965, vol. 45, n°6, p. 498-503.

INDEX OF SYMBOLS


Symbol	Meaning
	Catalog number
	Manufacturer
	Temperature limit
	Use by date
	Batch code
	Consult Instructions for Use
	Contains sufficient for <n> tests
	Date of manufacture

LIMITED WARRANTY

bioMérieux warrants the performance of the product for its stated intended use provided that all procedures for usage, storage and handling, shelf life (when applicable), and precautions are strictly followed as detailed in the instructions for use (IFU).

Except as expressly set forth above, bioMérieux hereby disclaims all warranties, including any implied warranties of merchantability and fitness for a particular purpose or use, and disclaims all liability, whether direct, indirect or consequential, for any use of the reagent, software, instrument and disposables (the "System") other than as set forth in the IFU.

PACKAGING

	Units/Pack	Short name (printed on each plate)
43281	2x10 plates 90 mm	LT

1 package insert downloadable from www.biomerieux.com/techlib

REVISION HISTORY

Change type categories

N/A	Not applicable (First publication)
Correction	Correction of documentation anomalies
Technical change	Addition, revision and/or removal of information related to the product
Administrative	Implementation of non-technical changes noticeable to the user

Note: *Minor typographical, grammar, and formatting changes are not included in the revision history.*

Release Date	Part Number	Change Type	Change Summary
2018-04	049518-01	Administrative	Warnings and Precautions / Quality Control / Literature References / Index of Symbols / Limited Warranty / Revision History
		Technical change	Intended Use / Composition of the Medium

BIOMERIEUX and the BIOMERIEUX logo are used, pending, and/or registered trademarks belonging to bioMérieux, or one of its subsidiaries, or one of its companies.

Any other name or trademark is the property of its respective owner.