

TRYPTONE GLUCOSE EXTRACT AGAR

Dehydrated medium for cultivating and enumerating microorganisms in water and dairy products

TYPICAL FORMULA (g/L)

Beef extract.....	3.0
Tryptone.....	5.0
Dextrose.....	1.0
Agar.....	15.0
Final pH	7.0 ± 0.2

DESCRIPTION

TRYPTONE GLUCOSE EXTRACT AGAR is used for cultivating and enumerating microorganisms in water and dairy products.

PRINCIPLE

Beef extract, tryptone provide nitrogen, carbon, sulphur and other essential growth factors. Dextrose is the source of energy. Agar is the solidifying agent.

PREPARATION

Suspend 24.0 g of powder in 1 litre of distilled or deionized water. Heat to boiling and shake until completely dissolved. Sterilize at 121°C for 15 minutes. Dispense in final containers.

TECHNIQUE

Consult the reference for information regarding the processing and inoculation of bottled water samples.¹ Inoculate 1 mL samples of appropriate dilutions of the test sample into sterile Petri dishes and molten, cooled **TRYPTONE GLUCOSE EXTRACT AGAR** is added followed by gentle mixing to distribute the sample dilution throughout the agar. Incubate at 32±1°C, or as specified in standard methods (35±0,5°C for at least 72 hours)¹.

INTERPRETATION OF RESULTS

Follow recommended procedures for counting colonies and reporting results¹. Because bacteria found in bottled water demonstrate a prolonged lag phase during adaptation to growth on **TRYPTONE GLUCOSE EXTRACT AGAR**, extended incubation beyond 48 hours may be required¹.

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. Kim and Feng, 2001. In Downes and Ito (ed.). Compendium of methods for the microbiological examination of foods, 4th ed. American Public Health Association, Washington, D.C.
2. American Public Health Association. 1948. Standard methods for the examination of dairy products, 9th ed. American Public Health Association, New York, N.Y.
3. American Public Health Association. 1972. Standard methods for the examination of dairy products, 13th ed. American Public Health Association, New York, N.Y.
4. American Public Health Association. 1980. Standard methods for the examination of dairy products, 15th ed. American Public Health Association, New York, N.Y.



LIOFILCHEM Bacteriology Products

64026 ROSETO D.A. (TE) ITALY- Via Scozia- Zona Ind.le

Tel. +39 085 8930745 - Fax +39 085 8930330

Sito Web: <http://www.liofilchem.net> E-Mail: liofilchem@liofilchem.net

PRODUCT SPECIFICATIONS

NAME

TRYPTONE GLUCOSE EXTRACT AGAR

PRESENTATION

Dehydrated culture medium

STORAGE

10-30°C

PACKAGING

Code	Content	Packaging
610089	500 gr	500 gr of powder in plastic bottle
620089	100 gr	100 gr of powder in plastic bottle

pH OF THE MEDIUM

7.0 ± 0.2

USE

TRYPTONE GLUCOSE EXTRACT AGAR is used for cultivating and enumerating microorganisms in water and dairy products.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE of the MEDIUM

Dehydrated medium

Appearance: free-flowing, homogeneous.

Colour: light to medium tan

Prepared medium

Appearance: clear to slightly opalescent

Colour: light amber

SHELFLIFE

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 UFC/ml
 Incubation conditions: 18-24 hours at 35 +/- 2°C ,in aerobiosis

Microorganisms		Growth
<i>Escherichia coli</i>	ATCC 25922	Good
<i>Staphylococcus aureus</i>	ATCC 25923	Good

TABLE of SYMBOLS

SYMBOL	MEANINGS
	Catalogue number
	Manufacturer
	Temperature limitation
	Contains sufficient <n> tests
	Use by
	Batch code
	Keep away from heat
	Consult accompanying documents



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