

## YEAST EXTRACT AGAR

**(ISO 6222)**
**IVD in Class A, EU Reg. 2017/746**

 For in vitro diagnostic use **IVD**

Nutrient medium for the enumeration of microorganisms in water and materials of sanitary importance, according to ISO 6222.

### DESCRIPTION

Yeast Extract Agar is a nutrient medium used for the determination of total microbial count in all types of water in accordance with the recommendations of ISO 6222.

### PRINCIPLE

Enzymatic digest of casein provides amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Yeast extract is a source of vitamins, particularly of B-group. Agar is the solidifying agent.

### COMPOSITION

	g/L
Enzymatic Digest of Casein	6.0
Yeast Extract	3.0
Agar	15.0

**Final pH 7,2 ± 0,2 at 25°C**

### WARNING AND PRECAUTIONS

#### For in vitro diagnostic use.

Observe the precautions normally taken when handling laboratory reagents.

**Dehydrated medium: HIGHLY HYGROSCOPIC.** During the handling, wear dust protection mask. Avoid the eye contact. Do not use beyond the expiration date or if the product shows signs of deterioration, an altered color or has compacted.

**Prepared Medium:** The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous.

**Safety Data Sheet** is available on request for professional users.

All waste must be disposed of according to local directives.

### STORAGE AND STABILITY

<b>Dehydrated medium:</b>	10-30°C
<b>Prepared medium:</b>	10-25°C

The product is stable until the expiration date indicated on the label under the recommended storage conditions.

### PREPARATION

**Dehydrated medium:** Suspend 24 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes.

**Prepared medium (bottles, tubes):** Melt the content of the bottle/tubes in a water bath at 100°C until completely dissolved. Then screw the cap and check the homogeneity of the dissolved medium, if it is the case turning the bottle/tube upside down. Cool at 45-50°C, mix well avoiding foam formation and aseptically distribute into Petri dishes.

### PROCEDURE

1. Make dilutions of the test sample taking into account the level of pollution expected.
2. Inoculate the medium (two sets of plates for each sample) by pour plating or membrane filtration method.
3. Incubate one set of plates at 36 ± 2°C for 40-48 h and the other set at 22 ± 2°C for 64-72 h.

### RESULTS

Count colonies on each plate (reject any plate with confluent growth) and express the results as CFU/ml of sample allowing for dilution factors.

### QUALITY CONTROL

**Dehydrated medium:** free-flowing, homogeneous, beige

**Prepared medium:** slightly opalescent, amber.

Typical response after incubation at 36±2°C for 40-48 hours, in aerobiosis

MICROORGANISM	GROWTH
Escherichia coli WDCM 00012	Good
Bacillus subtilis WDCM 00003	Good

### REFERENCES

- ISO 6222:2009. Water quality – Enumeration of culturable microorganisms – Colony count technique by inoculation in a nutrient agar culture medium.

### PRESENTATION

**Packaging**
**REF.**

**Dehydrated medium:**  
**YEAST EXTRACT AGAR**

100 g (4.2 L)	11272
500 g (20.8 L)	10272

**Prepared medium:**  
**YEAST EXTRACT AGAR**

6 x 100 mL bottles	63353
6 x 200 mL bottles	63253
12 x 200 mL bottles	63553
20 x 10 mL tubes	5288/20
20 pcs (60 mm ready-to-use plates)	2431901/20
20 pcs (90 mm ready-to-use plates)	3680210/20

### SYMBOLS


**Read the instructions**

**Biological hazard**

**CE Mark (product complies with the requirements of Regulation (EU) 746/2017)**

**Temperature limitation**

**Use by**

**For in vitro diagnostic use**

**Manufacturer**