

## UREA/ INDOLE BROTH

Medium for urease and indole test.

### TYPICAL FORMULA (g/l)

Potassium phosphate monobasic	10.0
Sodium Chloride	5.0
Tryptone	30.0
Phenol Red	4.0 mg
Urea	20.0
Final pH 6.8 ± 0.2	

### DESCRIPTION

UREA/ INDOLE BROTH is a medium for urease and indole test.

### PRINCIPLE

Tryptone is a source of aminoacids and proteins. Sodium chloride maintains the osmotic balance of the medium. Potassium phosphate monobasic is the buffer of the medium. Phenol Red is the pH indicator. Urea is the substratum for ureasic activity.

### PREPARATION

Check the content of the bottle is homogeneous and clear; if it is the case repeatedly turn the bottle upside down. UREA/ INDOLE BROTH can be used as it is or aseptically subdivided into smaller parts in sterile tubes.

### TECHNIQUE

Inoculate the sample in the medium and incubate at 36±1°C for 18-24 hours.

### INTERPRETATION OF RESULTS

Observe at 3 – 4 hours for any positive urease in tubes that turn the indicator a deep violet red color (alkalinization), typical of *Proteus* or *Yersinia*. *Klebsiella* and some *Citrobacter* develop positive tubes after 18 hours.

Indole production is determined by adding a few drops of Kovacs' Reagent (cod. 80270). A positive test is indicated by the development of a red color in the reagent layer.

### STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

### 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 is designed for *In vitro* diagnostic use and 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. Roland F. Bourbon D, Sztrum S. Ann. Inst. Pasteur, 73. 914-916.



**Liofilchem s.r.l.**

Via Scozia-Zona industriale - 64026 Roseto degli Abruzzi Tel. +39.085.8930745 - Fax +39.085.8930330  
Web site: <http://www.liofilchem.net> E-mail: [liofilchem@liofilchem.net](mailto:liofilchem@liofilchem.net)

## PRODUCT SPECIFICATIONS

### NAME

UREA/ INDOLE BROTH

### PRESENTATION

Glass bottles containing 100 ml of broth.

### PACKAGING

Code	Content	Packaging
403060	6 bottles x 100 ml	6 bottles in cardboard box

### pH OF THE MEDIUM

6.8 ± 0.2

### USE

UREA/ INDOLE BROTH is a medium for urease and indole test.

### TECHNIQUE

Refer to technical sheet of the product.

### APPEARANCE OF THE MEDIUM

Light amber, clear without precipitates.

### SHELF LIFE









2 years

### QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control  
2 days at 20 ± 2°C  
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control  
Inoculum for productivity: 10-100 UFC/ml  
Incubation conditions: 24 h at 36±/-1°C

Microorganism		Colour	Urea	Indole Test
<i>Salmonella typhimurium</i>	ATCC 14028	Yellow	-	-
<i>Escherichia coli</i>	ATCC 25922	Yellow	-	+
<i>Proteus mirabilis</i>	ATCC 25933	Red-fuchsia	+	-
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Yellow	-	-
<i>Klebsiella pneumoniae</i>	ATCC 13883	Red-fuchsia	+	-
<i>Enterococcus faecalis</i>	ATCC 19433	Yellow	-	-

### TABLE of SYMBOLS

 In vitro Diagnostic Medical Device	 Batch code	 Manufacturer	 Contains sufficient for <n> tests
 Catalogue number	 Temperature limitation	 Use by	 Caution, consult accompanying documents



**Liofilchem s.r.l.**

Via Scozia-Zona industriale - 64026 Roseto degli Abruzzi Tel. +39.085.8930745 - Fax +39.085.8930330  
Web site: <http://www.liofilchem.net> E-mail: [liofilchem@liofilchem.net](mailto:liofilchem@liofilchem.net)