

## TRYPTIC (CTA) MEDIUM

Semisolid medium for motility test and carbohydrate fermentation.

TYPICAL FORMULA	(g/l)
Tryptose	20.0
L-Cystine	0.5
Sodium Chloride	5.0
Sodium Sulphite	0.5
Phenol Red	0.017
Agar	2.5
Final pH = 7.3 ± 0.2 at 25 °C.	

### DIRECTIONS

Suspend 28.5 g of powder in 1 liter of distilled or deionized water. Heat to boiling until completely dissolved. Dispense into 10 ml tubes and sterilize in autoclave at 121 °C for 15 minutes. Cool to 45-50 °C. Aseptically add a sterile solution of carbohydrate at 0.5-1% final concentration. Mix well.

### DESCRIPTION

TRYPTIC (CTA) MEDIUM is a semisolid medium used with added carbohydrates in differentiating microorganisms based on fermentation reactions and motility. Fermentation of the test carbohydrate is observed when acid is formed and the medium turns from red to yellow. Motility of an organism is evident as a haze of growth extending into the agar from the stab line.

### TECHNIQUE

Heavily inoculate the specimen by stabbing using a sterile needle and incubate at 36 ± 1°C for 18-24 hours.

### QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: pink.

Prepared medium

Appearance: slightly opalescent.

Color: red.

Incubation conditions: 36 ± 1°C for 18-24 hours.

Microorganism	ATCC	Growth	Motility
<i>Enterococcus faecalis</i>	19433	good	-
<i>Salmonella typhimurium</i>	14028	good	+
<i>Escherichia coli</i>	25922	good	+

### PERFORMANCE AND LIMITATIONS

*Neisseria* species usually produce acid only in the area of stabs. If there is a strong acid (yellow colour) throughout the medium, a contaminating organism may be present. If in doubt about a tube containing a *Neisseria* species, a Gram stain and oxidase test should be performed on the growth.


### STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared plates at 2-8 °C.











### REFERENCES

- Vera, (1948). J. Bacteriol. **55**: 531.
- Baron, Peterson, Finegold (1994). Bailey & Scott's diagnostic microbiology, 9th ed.

### PRESENTATION

Product	REF	
TRYPTIC (CTA) MEDIUM (17.5 l)	610185	500 g
TRYPTIC (CTA) MEDIUM (3.5 l)	620185	100 g

### TABLE OF SYMBOLS

 Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests	 In Vitro Diagnostic Medical Device
 Catalogue number	 Fragile, handle with care	 Use by	 Temperature limitation	 Keep away from heat source



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