BT-SPEC-0081

Distribution: Central File

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OXOID QUALITY ASSURANCE
PRODUCT SPECIFICATION

TRYPTONE WATER

CM0087

Typical Formula*

Tryptone	grams per litre	10.0
Sodium chloride		5.0

* adjusted as required to meet performance standards

Directions

Dissolve 15g in 1 litre of distilled water. Mix well and distribute into final containers. Sterilize by autoclaving at 121°C for 15 minutes.

When sterile solutions are to be added after autoclaving, reduce the volume of water for reconstitution by an equal amount.

Physical Characteristics

Straw, free-flowing powder
Colour on reconstitution - straw 1
Moisture level - less than 7%
pH 7.5 ± 0.2 at 25°C
Clarity - clear

Microbiological Tests Using Optimum Inoculum Dilution

Medium is challenged with 1E+04 to 1E+06 colony-forming units

Inoculate the media with 40µl of a 4 hour broth culture. After incubation add a few drops of Kovacs' reagent to each tube to assess indole production. Indole positive reaction is indicated by a red layer after the addition of Kovacs' reagent.

Reactions after incubation at 37°C and 44°C for 24 hours

		37°C	44°C
Enterobacter aerogenes	ATCC® 13048	Turbid growth; indole –ve	Turbid growth; indole –ve
Escherichia coli	ATCC® 25922	Turbid growth; indole +ve	Turbid growth; indole +ve

Biochemical reactions

Add 1ml of the following 10% w/v sterile carbohydrate solutions to 9ml volumes of medium in bottles with Durham tubes:-

Glucose Mannitol Lactose Sucrose

Inoculate the enriched media and a control with 40µl of a 4 hour culture of *Salmonella typhimurium* ATCC® 14028

After incubation, add 1ml of 0.03% w/v phenol red solution to each tube to demonstrate acid production. Acid production is indicated by a colour change to yellow.

Reactions after incubation at 37°C for 18 hours

Glucose	Turbid growth, acid and gas
Mannitol	Turbid growth, acid and gas
Lactose	Turbid growth, no reaction and no gas
Sucrose	Turbid growth, no reaction and no gas
Control	Turbid growth, no reaction and no gas

A satisfactory result is represented by reactions in accordance with the specification.