

SYNCASE BROTH

CAT N°: 1315

For the detection of coliforms in foods samples

FORMULA IN g/l

Acid Casein Peptone	20.00	Yeast Extract	6.00
Dipotassium Phosphate	8.71	Sodium Chloride	2.50

Final pH 8.5 ± 0.2 at 25°C

PREPARATION

Suspend 37.21 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into appropriate containers and sterilize in autoclave at 121°C for 15 minutes. The prepared medium should be stored at 2-8°C. The color of the prepared medium is amber, slightly opalescent.

The dehydrated medium should be homogeneous, free-flowing and beige in color. If there are any physical changes, discard the medium.

USES

SYNCASE BROTH is recommended by APHA for the detection of coliforms in foods samples.

Acid casein peptone provides nitrogen, vitamins, minerals and amino acids essential for growth. Yeast extract is source of vitamins, particularly the B-group. Dipotassium Phosphate act as a buffer system. Sodium chloride supplies essential electrolytes for transport and osmotic balance.

Inoculate and incubate at 35 ± 2°C for 18-24 hours.

MICROBIOLOGICAL TEST

The following results were obtained from type cultures in the performance of the medium after incubation at a temperature of 35 ± 2°C during 18-24 hours.

Microorganisms	Growth
<i>Escherichia coli</i> ATCC 25922	Good
<i>Enterobacter aerogenes</i> ATCC 13048	Good
<i>Citrobacter freundii</i> ATCC 8090	Good

BIBLIOGRAPHY

Vanderzant C and Splittstoesser DF (eds) 1992), Compendium of Method for the Microbiological Examination of Foods, 3rd edn, APHA, Washington DC.

STORAGE

Once opened keep powdered medium closed to avoid hydration.

