

Product Data Sheet

C. PERFRINGENS SPORULATION BROTH Product No. GB-DCM-00149-1A

INTENDED USE

For promoting sporulation in Clostridium perfringens.

Product Description

Clostridium perfringens is ubiquitous in nature and can be found as a normal component of decaying vegetation, marine sediment, intestinal tract of humans and other vertebrates, insects, and soil. C. perfringens is commonly encountered in infections as a benign component of the normal flora. C. perfringens food poisoning is one of the most common types of human foodborne illnesses. A heat-labile enterotoxin produced only by sporulating cells induces the major symptoms of diarrhea in perfringens infections. C. perfringens Sporulation Broth is formulated as per APHA for enhancing sporulation in C Perfringens.

Product Specifications

Ingredients	Gms / Ltr
Tryptose	15.000
Yeast extract	3.000
Starch, soluble	3.000
Magnesium sulphate	0.100
Sodium thioglycollate	1.000
Disodium hydrogen phosphate	11.000

PRINCIPLE

The medium contains ingredients like tryptose, yeast extract and starch, which not only support the growth of C. perfringens but also stimulate spore formation in presence of magnesium sulphate. Sodium thioglycollate in the medium helps to maintain anaerobic conditions. Magnesium sulphate and disodium phosphate provide ions to the organism and helps in maintaining buffering conditions in the medium.



Microorganism	ATCC	Inoculum (CFU)	Growth	Sporulation	Incubation Temperature	Incubation Period
Clostridium perfringens	12924	50-100	Good- luxuriant	Positive	40±2°C	18-24 Hours
Clostridium sporogenes	11437	50-100	Good- luxuriant	Negative	40±2°C	18-24 Hours

NSTRUCTION FOR USE

- Dissolve 33.1 grams in 1000 ml purified / distilled water.
- Heat if necessary to ensure complete solution.
- Dispense 20 ml amounts in 20 x 150 mm screw capped test tubes.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Just before use, heat the medium in flowing steam for 20 minutes

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Cream to yellow homogeneous free flowing powder

Appearance of prepared medium Medium amber coloured, clear to slightly opalescent solution

with a slight precipitate in tubes.

PH (at 25°C): 7.8±0.2

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.

Goslar Biotech, 255A Barking Road East Ham, London E6 1LB, United Kingdom Email: info@goslarbiotech.com, Website: www.goslarbiotech.com