

Product Data Sheet

GELATIN AGAR Product No. GB-DCM-00231-1A

INTENDED USE

For cultivation and identification of Vibrio species.

PRODUCT SUMMARY

Members of the genus Vibrio are facultative anaerobes capable of both respiratory and fermentative metabolisms. The natural habitat for Vibrio species is aquatic, in both fresh water and salt water. The growth and biochemical reactivity of most species are enhanced in different test media supplemented with 1-2 % sodium chloride. Vibrios are fairly easy to isolate from both clinical and environmental material, though some species may require growth factors and /or vitamins. Media can be made selective for Vibrio's by adding appropriate selective agents. High concentrations of NaCl and alkaline pH have also been used to select certain Vibrio species, based on the ability of most Vibrio's to grow at pH values above 8.0 and at 3% or higher concentrations of NaCl. Gelatin Agar is formulated in accordance with APHA for the cultivation and characterization of Vibrio species from foods and faeces. Clinical specimens must be obtained early in the disease as possible because the duration of excretion of the pathogen is short. Weigh 25 grams of sample such as seafood or vegetables either blended or cut into small pieces and add into 2 flasks. Add 225 ml Alkaline Peptone Water to one flask and 225 ml of Glucose Phosphate Broth in another flask. Mix well. Incubate at 35° ± 2°C for 6 to 8 hours. Inoculate one loopful from each flask on the non-selective Gelatin Agar. V. cholerae appear transparent and usually have a characteristic cloudy zone around colony, which becomes more definite after few minutes of refrigeration. When these colonies are viewed in obligue light they appear iridescent green to bronze coloured and finely granular.

Ingredients	Gms / Ltr
Gelatin	30.000
Tryptone	10.000
Sodium chloride	10.000
Agar	15.000

Product Specifications

DISPOSAL

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

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



PRINCIPLE

Gelatin serves as a substrate for gelatinase reaction. Sodium chloride maintains the osmotic equilibrium of the medium and tryptone is source of amino acids for the growing bacteria.

INSTRUCTION FOR USE

- Dissolve 65.0 grams in 1000 ml purified/distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C. Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder:Cream to yellow homogeneous free flowing powderAppearance of prepared mediumYellow coloured, clear to slightly opalescent gel forms in Petri platespH (at 25°C) : 7.2 ± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Color of the colony	Incubation Temperature	Incubation Period
Vibrio cholerae	15748	50-100	luxuriant	>=70%	Positive reaction,	35-37°C	24-48 Hours
Vibrio parahaemolyticus	17802	50-100	luxuriant	>=70%	Clear zone around the colony within 24- 48 hours	35-37°C	24-48 Hours

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.

This product is for research use only.

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