



Product Data Sheet

MUG TRYPTONE SOYA AGAR (MUG CASO AGAR)

Product No. GB-DCM-00374-1A

INTENDED USE

For detection of indole production by microorganisms using fluorogenic method.

PRODUCT SUMMARY

MUG Tryptone Soya Agar is used for cultivation of fastidious and non-fastidious microorganisms by fluorogenic method. The medium is rich in nutrients, which makes it suitable for cultivating aerobes as well as anaerobes. Tryptone Soya Agar is used as blood agar base as well as a reference medium when testing selective media to measure the degree of inhibition. Tryptone Soya Agar with MUG is same as Tryptone Soya Agar with the addition of MUG, used to detect the organisms based on fluorescence.

Product Specifications

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	15.000
Papaic digest of soyabean meal	5.000
Sodium chloride	5.000
4-Methylumbelliferyl β -D-Glucuronide (MUG)	0.100
Agar	15.000

PRINCIPLE

Casein enzymic hydrolysate and papaic digest of soyabean meal provide nitrogenous and other growth nutrients. Organisms like Escherichia coli cleave MUG by the enzyme β -glucuronidase to release 4-methylumbelliferone, a fluorogenic end product which produces a visible green-blue fluorescence under long wave UV light.

INSTRUCTION FOR USE

- Dissolve 40.1 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Mix well and pour into sterile Petri plates.

DISPOSAL

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

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.

Appearance of prepared medium: Light yellow coloured clear to slightly opalescent gel forms in Petri plates.

pH (at 25°C) : 7.3± 0

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Fluorescence (under UV)	Incubation Temperature	Incubation Period
Bacillus subtilis	6633	50-100	Luxuriant	>=70%	Negative	35-37°C	18-48 Hours
Candida albicans	10231	50-100	Luxuriant	>=70%	Negative	35-37°C	18-48 Hours
Clostridium sporogenes	11437	50-100	Luxuriant	>=70%	Negative	35-37°C	18-48 Hours
Escherichia coli	25922	50-100	Luxuriant	>=70%	Positive	35-37°C	18-48 Hours
Neisseria meningitidis	13090	50-100	Luxuriant	>=70%	Negative	35-37°C	18-48 Hours
Staphylococcus aureus	25923	50-100	Luxuriant	>=70%	Negative	35-37°C	18-48 Hours
Staphylococcus epidermidis	12228	50-100	Luxuriant	>=70%	Negative	35-37°C	18-48 Hours
Streptococcus pneumoniae	6303	50-100	Luxuriant	>=70%	Negative	35-37°C	18-48 Hours
Streptococcus pyogenes	19615	50-100	Luxuriant	>=70%	Negative	35-37°C	18-48 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: info@goslarbiotech.com, Website: www.goslarbiotech.com