

MUG TRYPTOPHAN SUPPLEMENT

VIAL CONTENTS

4-methylumbellipheryl- β -D-glucuronide 50 mg
Tryptophan 50 mg

INTENDED USE

The MUG Tryptophan Supplement is used for the detection of - β -D-glucuronidase enzyme (fluorescence emission under Wood's lamp) and for the indole test (red colour development on the culture after Kovacs' Reagent addition), for the identification and confirmation of *Escherichia coli*

DIRECTIONS

Dissolve the contents of one vial with 5 ml of sterile distilled water. Mix gently to dissolve. Add the vial contents to 500 of the desired medium, according to the reported table, before sterilisation.

MEDIUM	VIALS/ 1000 ML
Brilliant Green Bile Broth 2% (401265)	2
Lauryl Pepto Bios Broth (401580)	2
Mac Conkey Broth Purple (401675)	2
EC Broth (401425)	2

TECHNIQUE

Follow the method and procedure relevant to the sample and the selected medium. Uninoculated tubes or agar plates should be used as controls. (See Precaution.)

After incubation detect glucuronidase activity by examining the microbial growth under UV light (366nm). Indole Test should be performed by adding some drops of Kovacs' Reagent to the incubated tubes.

The presence of blue/green fluorescence indicates glucuronidase activity.

red colour development on the culture after Kovacs' Reagent addition indicates indole positive test.

Report fluorescence and indole test as presence of *Escherichia coli*.

STORAGE

Store at 2-8° - When stored as directed the supplement remains stable until the expiry date shown on the label. Do not use beyond stated expiry date.

PRECAUTIONS AND WARNING

The supplement should be used only by adequately trained personnel with knowledge of microbiological techniques in the laboratory.

The presence of endogenous glucuronidase in shellfish samples may result in false positive fluorescence.

Test tubes used in the MPN method should be checked under UV light to ensure the glass does not fluoresce. To avoid false positive fluorescence the source of long wave UV light must not exceed 6 watts

PACKAGING**4240027****MUG Tryptophan Supplement****10 vials**