

## MUG SUPPLEMENT

**VIAL CONTENTS**

4-methylumbellipheryl-  $\beta$ -D-glucuronide 50 mg

**INTENDED USE**

The MUG Supplement is used for the detection of -  $\beta$ -D-glucuronidase enzyme (fluorescence emission under Wood's lamp) for the identification of *E.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 or 1000 ml of the desired medium, according to the reported table, before sterilisation. Mix well and distribute into sterile Petri dishes

MEDIUM	VIALS/ 1000 ML
Mac Conkey Agar (401670)	2
Violet Red Bile Agar (402185)	2
Brilliant Green Bile Broth 2% (401265)	2
Lauryl Pepto Bios Broth (401580)	1
Mac Conkey Broth Purple (401675)	1
EC Broth (401425)	1

**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).

The presence of blue/green fluorescence indicates glucuronidase activity.

Report fluorescence as presumptive presence of *Escherichia coli* and confirm by further biochemical tests.

**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****4240026****MUG Supplement****10 vials**