**SOP Bile Esculin Agar Media preparation**

**Document Number: XX**

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**Purpose**

This SOP describes the procedure used to make Bile Esculin Agar Media.

**Scope**

For culturing from stool samples, it is a selective media that is used for the isolation and differentiation of group Bacteroides.

**Regulatory References:** NA

**Responsibility of experimentalist:** understanding and performing this procedure as described; reporting any deviations or problems to area supervisor; adequately documenting the procedures and results.

**Responsibility of area manager or supervisor:** ensuring that the analyst performing this procedure is qualified; ensuring that the procedure is followed, and updating the procedure as necessary.

**Definitions/Abbreviations:**

Gifu Anaerobic Broth Media: GAM

Milliliter: ml

**Related Documents:** NA

**Required Equipment and Materials / Reagents**

* BEAM (HIMedia: Cat# MV1035)
* L-cysteine (Sigma Aldrich; Cat# C7532)
* Bottle-top vacuum filter system, pore size 0.2 μm- 1L (Sigma, Cat# CLS430515)
* MilliQ Water

**Precautions**

Personal protection equipment including gloves and lab coat must be worn when executing this procedure

The media expires 3 weeks after preparation

**Procedure**

* Suspend 44.6 grams of BEAM powder in 1000 ml MilliQ water (to obtain 2X media)
* Mix thoroughly with stir bar and magnetic stirrer
* Heat to boiling to dissolve the medium completely
* Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes
* Let cool at room temperature
* Add 0.5g L-cysteine (to ensure it will easily reduce)
* Media can be stored at 4°C for one month (bottle have to be labeled with date of manufacture)

Note 1: the media can be used to pour petri plates: then mix 2X media and 2X agar solutions (1:1)

Note 2: the media can be used for culturing in liquid media: then mix 2X media and sterile water (1:1)

**Version History: NA**

**Worksheets: NA**

**Appendix: NA**