

ALKEN-MURRAY CORPORATION	TITLE: TETRATHIONATE BROTH PREPARATION PROCEDURE	NO. QC-23
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ALKEN-MURRAY CORPORATION

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QUALITY CONTROL METHOD - 23

Preparation of Tetrathionate Broth

Description:

This quality control procedure is designed to reproducibly prepare tetrathionate broth and verify that it is obtained and stored properly. Tetrathionate broth is used in QC-3 and other procedures. This procedure should be performed by a trained laboratory technician.

Ingredients:

Tetrathionate broth base (Weber #3088-50 from BBL)

OR

Tetrathionate broth base (Difco #0580-01-7)

Equipment:

Erlenmeyer flask with screw cap (double the volume of media being prepared)

Heated stirrer plate

Balance accurate to 0.001 g

Screw cap test tubes

Autoclave

Steri-Wrap II (green)

Rapid-Flo gauze milk filter disk

Tetrathionate Broth Base (g)	1.8	3.6	36
*Iodine solution (mls)	1	2	20
Deionized water (mls)	50	100	1000

*Iodine solution

Iodine crystals (Fisher # 137-100)

6g

Potassium iodide (Fisher # P410-500 or P-411)

5g

Deionized water

20 ml

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Procedure:

1. Cleanly suspend tetrathionate broth in deionized water.
2. Heat to boiling with frequent agitation.
3. Cool to below 60° C.
4. Add iodine solution.
5. Aseptically suspend 10 ml into sterile tubes.

Storage:

1. The complete medium containing iodine should be used the day it is prepared.
2. The dry base medium without iodine can be stored indefinitely between 2° and 30°C.