



Sample Collection

Created by Authorized Personnel: Jacob Billings, 2023-12-19

Expiration Date:

2025-12-11

Product Manufacturing Certificate

Certificate of Analysis

3M Product: 3M™ Flip-Top Dilution Bottle with 99mL Butterfield's Buffer
 3M Catalog Number: FTBFD9960
 3M Lot Number: 33W53E
 3M Stock Number: 70-2011-7596-8

Chemical and Physical Testing

Parameter	Specification	Pass
Clarity	Clear	Yes
Precipitate	None	Yes

Parameter	Specification	Results	Pass
Final pH @ 25°C	7.2 ± 0.2	7.1	Yes
Average Fill Volume	99 mL ± 2.0 mL	99.0mL	Yes

Microorganism Testing

Survival of Inoculated Organisms* Log Colony Forming Units/mL

Organism Tested	Time Zero	One Hour	Pass
<i>Escherichia coli</i> ATCC 25922	2.19	2.07	Yes
<i>Staphylococcus aureus</i> ATCC 25923	2.32	2.21	Yes

*Survival of test organisms was evaluated by inoculating low levels of these bacteria into the product and holding @ 4° C for 1 hour.

Raw Milk Toxicity Analysis

Raw milk was added to the dilution bottle sample and incubated for 0 and 45 minutes. Standard plate count after 45 minutes of incubation of the diluted raw milk sample show less than 20% decrease when compared to the time 0 count.

Terminal Irradiation Processing Parameters

This product has been subjected to Gamma irradiation as a terminal process. The minimum and maximum delivered met established specifications for this product.

This letter certifies that the product described above has been tested and found to comply with 3M's product performance specifications applicable to subject device at time of manufacture. Visit the 3M Food Safety website, www.3m.com/foodsafety for additional information. 3M is certified to ISO 9001 through an independent agency.

3M Health Care
3M Center, Building 275-5W-05
St. Paul, MN 55144-1000 Phone: 1-800-328-1671

3M is a trademark of 3M. Please recycle.
Printed in USA © 3M 2020. All rights reserved.

3M™ Flip-Top with 99mL Butterfield's Buffer

FTBFD9960