

3M™ Petrifilm™ *Salmonella* Express System: Microbiological Media Usage

The 3M™ *Salmonella* Enrichment Base with the 3M™ *Salmonella* Enrichment Supplement is used as part of the 3M™ Petrifilm™ *Salmonella* Express System. The media are designed to enhance the growth of *Salmonella* species and inhibit the growth of non-*Salmonella* species, making the media specialized for use with the 3M™ Petrifilm™ *Salmonella* Express Plate and 3M™ Petrifilm™ *Salmonella* Express Confirmation Disk.

3M *Salmonella* Enrichment Base

The 3M *Salmonella* Enrichment Base is used with the 3M *Salmonella* Enrichment Supplement for the selective enrichment of *Salmonella* species in foods and food process - environmental samples in conjunction with the 3M Petrifilm *Salmonella* Express Plate and 3M Petrifilm *Salmonella* Express Confirmation Disk.

Preparation Information:

Suspend 37.0 g of the powder in 1.0 L of purified water. Mix thoroughly. If necessary, heat to completely dissolve powder. Dispense. Autoclave at 121°C for 15 minutes.

After autoclaving for sterilization, temper the medium and check the pH. The pH specification is 7.0±0.2 at 25°C. If the pH is out of the specification range, the media is not acceptable for use, should be discarded, and re-prepared.

If the prepared medium is within pH specification, allow the medium to temper to 20 - 42.5°C and then add the appropriate amount of 3M *Salmonella* Enrichment Supplement.

Refer to the full instructions for use found at www.3M.com/FoodSafety for additional details.

Storage & Shelf Life

3M *Salmonella* Enrichment Base is hygroscopic and the container cap should be tightly closed when stored.

Table 1. 3M *Salmonella* Enrichment Base – shelf life and storage conditions:

Medium Format	Shelf Life	Storage Conditions
Dehydrated 3M <i>Salmonella</i> Enrichment Base	1 year	15-25°C
Prepared 3M <i>Salmonella</i> Enrichment Base	28 days	2-25°C*, protect from light

* Before adding 3M *Salmonella* Enrichment Supplement to refrigerated 3M *Salmonella* Enrichment Base, allow the 3M *Salmonella* Enrichment Base to first come to room temperature.

3M *Salmonella* Enrichment Supplement

The 3M *Salmonella* Enrichment Supplement is a required additive to the tempered, prepared 3M *Salmonella* Enrichment Base. The 3M *Salmonella* Enrichment Supplement can be added either directly as a powder or as a hydrated solution to the prepared base.

Preparation Information – 3M *Salmonella* Enrichment Supplement powder:

Follow all instructions carefully. Failure to do so may lead to inaccurate results. Wear appropriate protective apparel and follow standard good laboratory safety practices (GLP)¹. Use an analytical balance capable of reading at least three to four decimal places to weigh the supplement.

Allow vial to come to ambient temperature. Gently invert the vial 3-4 times to mix the supplement powder. Aseptically add 50 mg (± 2.5 mg) of the 3M *Salmonella* Enrichment Supplement to 1 L of sterilized 3M *Salmonella* Enrichment Base tempered to 20 to 42.5°C. Mix thoroughly.

Refer to the full instructions for use found at www.3M.com/FoodSafety for additional details.

Preparation Information – Hydrated 3M *Salmonella* Enrichment Supplement solution:

A hydrated supplement solution can be prepared by using a 3M *Salmonella* Enrichment Supplement concentration of 2.5 mg / mL in sterile water.

To prepare a hydrated 3M *Salmonella* Enrichment Supplement solution:

- 1) Aseptically weigh the appropriate amount of 3M *Salmonella* Enrichment Supplement into a sterile polypropylene container or equivalent.
- 2) Aseptically add the appropriate amount of sterile water to the container with supplement. Vigorously mix (example: by vortexing) the solution. Ensure that the supplement is fully dissolved in the solution.
- 3) Store the hydrated supplement solution at 2 - 8°C for up to 15 days, protected from light.

The following table provides a summary of weighing options for the hydration procedure.

Table 2. 3M *Salmonella* Enrichment Supplement – Hydration Preparation options:

3M <i>Salmonella</i> Enrichment Supplement – amount to weigh	Sterile water – amount to add to 3M <i>Salmonella</i> Enrichment Supplement	Shelf Life	Storage Conditions
1.00 \pm 0.05 grams	400 mL	15 days	2 - 8°C, protect from light
0.500 \pm 0.025 grams	200 mL		



Food Safety
3M Center
Building 275-5W-05
St. Paul, MN 55144-1000
USA
1-800-328-6553
www.3M.com/foodsafety

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Storage & Shelf Life

3M *Salmonella* Enrichment Supplement is hygroscopic and the vial cap/lid should be tightly closed and protected from light.

Table 3. 3M *Salmonella* Enrichment Supplement – shelf life and storage conditions:

Supplement format	Shelf Life	Storage Conditions
3M <i>Salmonella</i> Enrichment Supplement in vial – unopened	1 year	2 - 8°C, protect from light
3M <i>Salmonella</i> Enrichment Supplement in vial– opened	5 months	
3M <i>Salmonella</i> Enrichment Supplement with sterile water	15 days	

Hydrated 3M *Salmonella* Enrichment Supplement with 3M *Salmonella* Enrichment Base – combination

Once prepared, the hydrated 3M *Salmonella* Enrichment Supplement can be added into the prepared 3M *Salmonella* Enrichment Base medium.

The following table summarizes the amount of hydrated 3M *Salmonella* Enrichment Supplement to add to prepared 3M *Salmonella* Enrichment Base.

Table 4. Hydrated 3M *Salmonella* Enrichment Supplement – volume to add to prepared 3M *Salmonella* Enrichment Base:

3M <i>Salmonella</i> Enrichment Base – prepared volume	Hydrated 3M <i>Salmonella</i> Enrichment Supplement solution – volume to add to prepared Base	Shelf Life of 3M <i>Salmonella</i> Enrichment Base with Hydrated 3M <i>Salmonella</i> Enrichment Supplement - combination	Storage Conditions
225 mL	4.5 mL	Shortest remaining shelf life of either the hydrated 3M <i>Salmonella</i> Enrichment Supplement or the prepared 3M <i>Salmonella</i> Enrichment Base*	2 - 8°C, protect from light
450 mL	9.0 mL		
675 mL	13.5 mL		
900 mL	18.0 mL		
1000 mL (1L)	20.0 mL		
2000 mL (2L)	40.0 mL		
5000 mL (5L)	100.0 mL		

* Example: if the hydrated 3M *Salmonella* Enrichment Supplement has remaining shelf life of 2 days, but the prepared 3M *Salmonella* Enrichment Base has remaining shelf life of 15 days, the shelf life of the combined mixture is 2 days.

Storage & Shelf Life

The shelf life of the combined hydrated 3M *Salmonella* Enrichment Supplement with the prepared 3M *Salmonella* Enrichment Base is the shortest remaining shelf life of either the hydrated supplement or the prepared base. The storage is 2- 8°C, protected from light.

Reference: 1. U.S. Food and Drug Administration. Code of Federal Regulations, Title 21, Part 58. Good Laboratory Practice for Nonclinical Laboratory Studies.



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3M Center
Building 275-5W-05
St. Paul, MN 55144-1000
USA
1-800-328-6553
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