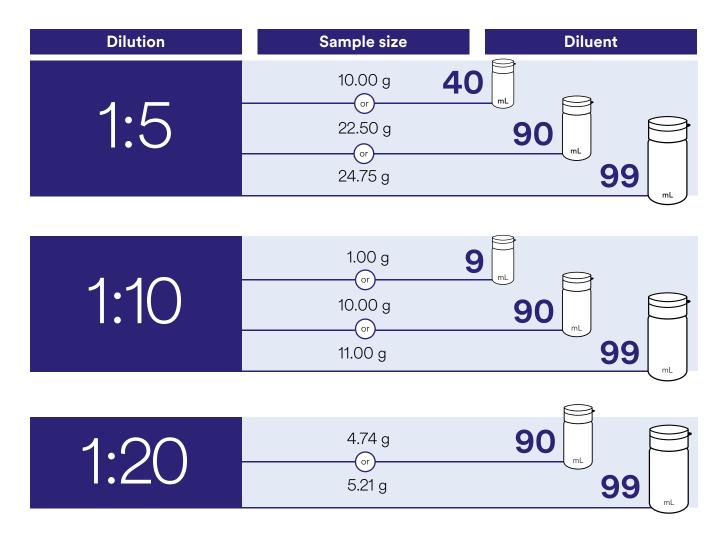
# **3M** Petrifilm<sup>™</sup>

3M™ Petrifilm™ Plates

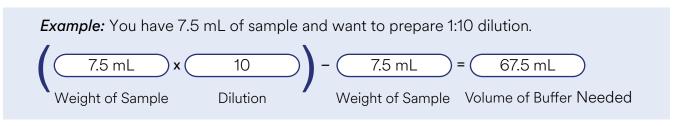
# **Guide to Dilution Preparation**

Many foods require a dilution step before plating and the following is a guide to use when preparing dilutions. For specific dilution recommendations for dairy and juice, please refer to the 3M Petrifilm Plate Application Guide: Use with Dairy and Juice Products.



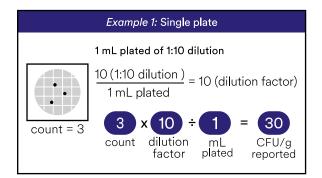
#### **Diluent Volume Calculations:**

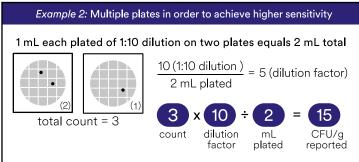
Volume of Buffer Needed = (Weight of Sample x Dilution) – Weight of Sample



### **Procedure for Determining Counts:**

Use a multiplication factor to convert the plate count to the number of colony forming units (CFU) of bacteria per gram of sample. The multiplication factor is determined by dividing the dilution used by the volume plated.





## Sensitivity of 3M™ Petrifilm™ Plates:

If no colonies appear on the plate, do not report the count as zero. Report in CFU/g as shown below. Most 3M Petrifilm Plates require a 1 mL volume of sample. 3M™ Petrifilm™ High-Sensitivity Coliform Count Plate requires a 5 mL volume of sample.

Dilution	3M Petrifilm Plate	CFU/g
1:10	1 mL plate 5 mL plate	<10.0 < 2.0
1:5	1 mL plate 5 mL plate	< 5.0 < 1.0
1:2	1 mL plate 5 mL plate	< 2.0 < 1.0
Undiluted	1 mL plate 5 mL plate	< 1.0 < 1.0

For greater sensitivity, a lower dilution and /or more plates may be used.

For detailed WARNING, CAUTIONS, DISCLAIMER OF WARRANTIES / LIMITED REMEDY, LIMITATION OF 3M LIABILITY, STORAGE AND DISPOSAL information, and INSTRUCTIONS FOR USE see product's instructions online at **3M.com/foodsafety/Petrifilm** 



**3M Food Safety** 3M Center Bldg. 275-5W-05 St. Paul, MN 55144-1000

Phone 1-800-328-6553 Web 3M.com/foodsafety Post Office Box 5757 London, Ontario N6A 4T1 Canada