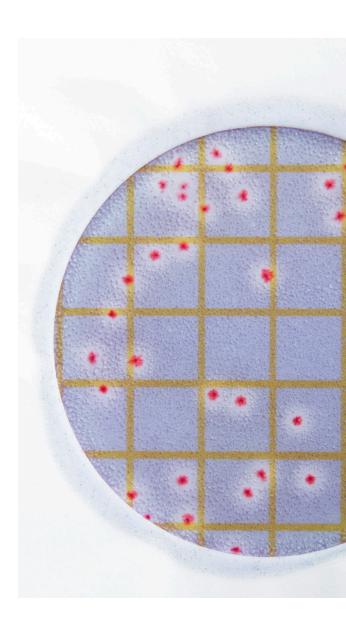
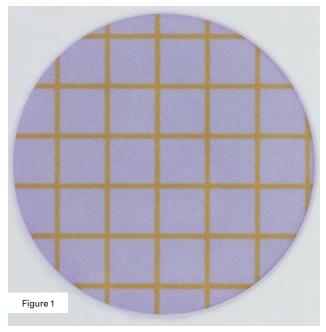


Interpretation Guide

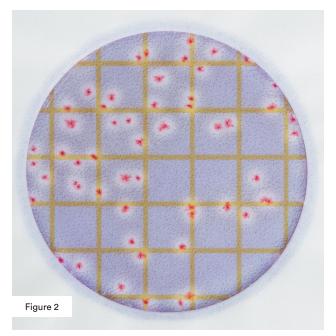
The Neogen® Petrifilm® Bacillus cereus Count (BC) Plate is a selective and differential sample-ready-culture-medium system which contains nutrients, a cold-water-soluble gelling agent, chromogenic indicators and a lecithinase substrate that facilitates colony enumeration of Bacillus cereus group, also known as the Bacillus cereus sensu lato group, in as soon as 20 hours.





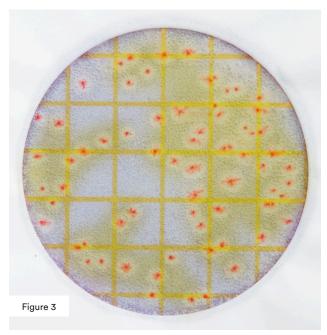
Bacillus cereus Count = 0

Figure 1 shows a Bacillus cereus Count Plate without colonies.



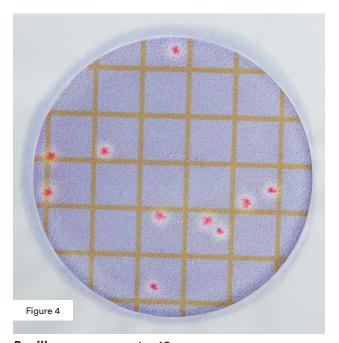
Bacillus cereus Count = 54

Count all red-violet colonies with a cream/white zone as *Bacillus cereus*.



Bacillus cereus count = 69

Bacillus cereus colonies may occasionally be associated with a yellow acid zone in addition to the cream/white zone. Count all red-violet colonies with a cream/white zone as Bacillus cereus.

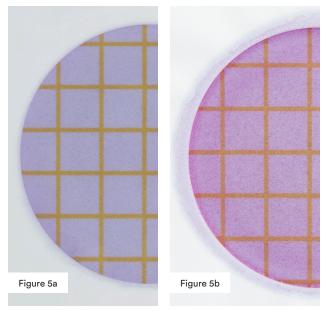


Bacillus cereus count = 10

Figure 4 shows a Bacillus cereus Count Plate with a few bacterial colonies.

Too Numerous Too Count (TNTC)

Petrifilm *Bacillus cereus* Count Plates that are TNTC may have one or more of the following characteristics: many small indistinct colonies, darkening of the outer edge and deepening of the gel color from blue-purple to dark purple.

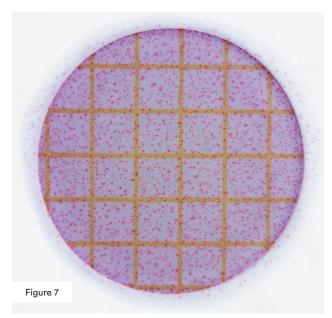


Bacillus cereus count = 0

Bacillus cereus count = TNTC

High concentrations of colonies on the plates will cause the entire growth area to turn blue-purple to deep purple.

For a more accurate count, further dilution of sample may be necessary.

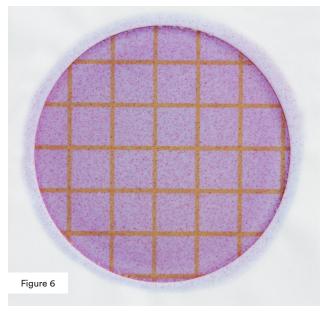


Bacillus cereus count = TNTC

The counting range on a Petrifilm *Bacillus cereus* Count Plate is less than or equal to 100 colonies.

High concentrations of colonies on the plate may appear as many small indistinct colonies on the plate.

For a more accurate count, further dilution of sample may be necessary.

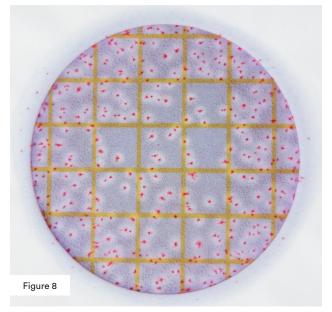


Bacillus cereus count = TNTC

The counting range on a Petrifilm *Bacillus cereus* Count Plate is less than or equal to 100 colonies.

High concentrations of colonies on the plate may appear as many small indistinct colonies on the plate.

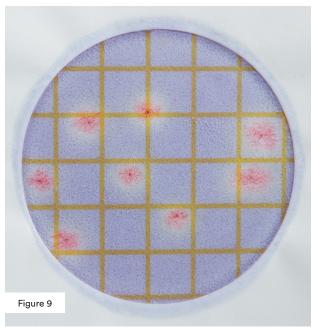
For a more accurate count, further dilution of sample may be necessary.



Bacillus cereus count = TNTC Estimated count = ~ 360

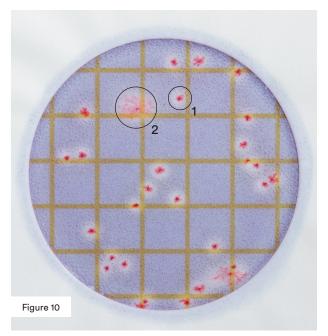
The circular growth area is approximately 30cm². Gridlines are visible with the use of a backlight to assist with estimated enumeration. Estimates can be made on Petrifilm *Bacillus cereus* Count Plates by counting the number of colonies in two or more representative squares and determining the average number per square. Multiply the average number by 30 to determine the estimated count per plate.

For a more accurate count, further dilution of sample may be necessary.



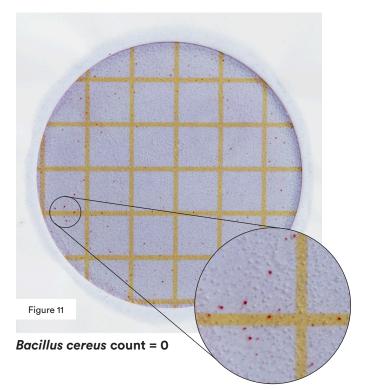
Bacillus cereus count = 8

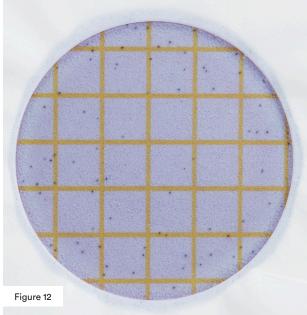
Bacillus cereus may appear as large colonies. Count all redviolet colonies with a cream/white zone regardless of size and color intensity.



Bacillus cereus count = 29

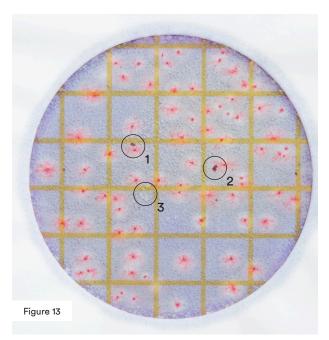
Bacillus cereus colonies may be small (Circle 1) or large (Circle 2) in size. Count all red-violet colonies with a cream/ white zone regardless of size and color intensity.





Bacillus cereus count = 0

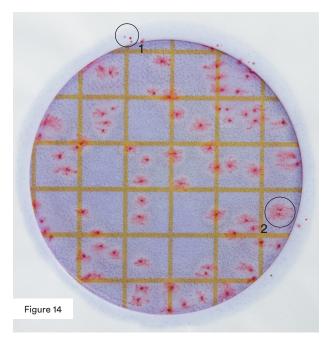
Non-Bacillus cereus colonies may be inhibited or may appear as red colonies without a cream/white zone (Figure 11) or as blue colonies (Figure 12). Do not interpret red colonies without a cream/white zone or blue colonies as Bacillus cereus.



Bacillus cereus count = 75

Food particles are irregularly shaped or filamentous (Circle 1 and 2). Do not enumerate food particles.

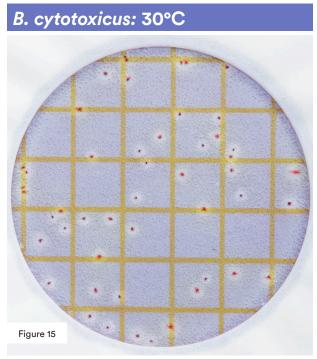
Artifact bubbles may result from improper inoculation or from trapped air within the sample. They are irregularly shaped and are not associated with a colony (Circle 3). Do not enumerate artifact bubbles.



Bacillus cereus count = 65

Do not count colonies on the foam barrier (Circle 1) because they are removed from the selective influence of the medium.

Colonies in close proximity of one another may share a cream/ white zone (Circle 2) and should be counted as two colonies.



Bacillus cereus count = 49

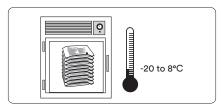
B. cytotoxicus: 35°C

Bacillus cereus count = 31

Bacillus cytotoxicus may occasionally exhibit a darker red-purple color with a distinct cream/white zone at 30°C±1°C (Figure 15) with typical morphology and appearance at 35°C±1°C (Figure 16).

Reminders For Use

Storage



01

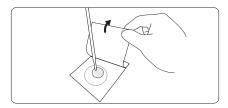
Store the unopened Petrifilm Bacillus cereus Count Plate pouches at frozen or refrigerated temperature equal to -20 to 8°C (-4 to 46°F). Use before expiration date on package. It is best to allow pouches to reach room temperature before opening.



02

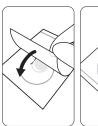
Seal by folding the end of the pouch over and applying adhesive tape. To prevent exposure to moisture, do not refrigerate opened pouches. Store resealed pouches in a cool dry place (20-25°C/<60% RH) for no longer than four weeks.

Inoculation



03

Place the Petrifilm Bacillus cereus Plate on level surface. Lift the top film and with the pipette perpendicular dispense 1 mL of sample suspension onto the center of bottom film.

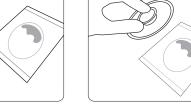


Roll top film down onto sample

gently to prevent pushing sample

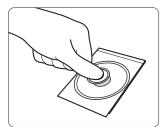
off film and to avoid entrapping air





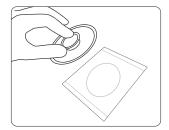
05

Place the Petrifilm Flat Spreader on the center of the Petrifilm Bacillus cereus Count Plate.



06

Gently apply pressure on spreader to distribute inoculum over circular area. Do not twist or slide the spreader.



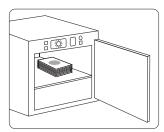
07

Lift spreader. Wait a minimum of one minute for gel to solidify.

Incubation

04

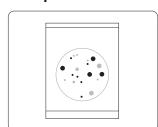
bubbles.



80

Incubate plates with clear sides up in stacks up to 10. Please refer to the product instructions for third party validated methods.

Interpretation



09

Petrifilm Bacillus cereus Count Plates can be counted on a benchtop, or using a standard colony counter or other illuminated magnifier.

Use Appropriate Sterile Diluents

Butterfield's phosphate buffer, buffered peptone water, 0.1% peptone water, peptone salt diluent, saline solution (0.85-0.90%), bisulfite-free letheen broth or distilled water.

Do not use diluents containing citrate, bisulfite or thiosulfate with the Petrifilm Bacillus cereus Count Plates; they can inhibit growth.

If needed, adjust the pH of the sample suspension to a pH greater than

User's Responsibilities: Neogen Petrifilm Plate performance has not been evaluated with all combinations of microbial flora, incubation conditions and food matrices. It is the user's responsibility to determine that any test methods and results meet the user's requirements. Should re-printing of this Interpretation Guide be necessary, user's print settings may impact picture and color quality.

Neogen offers a full line of products to accomplish a variety of your microbial testing needs.

For more product information, visit info.neogen.com/petrifilm



For detailed CAUTIONS, DISCLAIMER OF WARRANTIES/LIMITED REMEDY and LIMITATION OF NEOGEN LIABILITY, STORAGE AND DISPOSAL information and INSTRUCTIONS FOR USE, see product instructions.