



Interpretation Guide

The CountEasy Rapid E.Coli and Coliform Count(REC) test plate a selective and differential sample-ready-culturemedium system which contains proprietary nutrients, a cold-water-soluble gelling agent, 5-bromo-4-chloro-3-indolyl-Dglucuronide (BCIG) an indicator of glucuronidase activity, and a tetrazolium indicator that facilitates colony enumeration. It can perform colony count determination on most food substrates within 18-24 hours.



REC

CountEasy Rapid E.Coli and Coliform Count(REC) test plate

The vast majority of *Escherichia coli* (approximately 97%) produce β -glucuronidase, which yields a characteristic blue precipitate on CountEasy Rapid E.coli/Coliform Count plates and is therefore easy to recognize. The plate's top film effectively traps the carbon dioxide produced by lactose-fermenting *E. coli*, further enhancing the visual signal. A small number of non-gas-producing *E. coli* (i.e., gas-negative strains) do not generate gas but still form blue to blue-green colonies. For counting purposes, whether or not gas is retained, any colony that is blue or blue-green and lies within the gas-capture zone (approximately one colony diameter) is scored as *E. coli*.

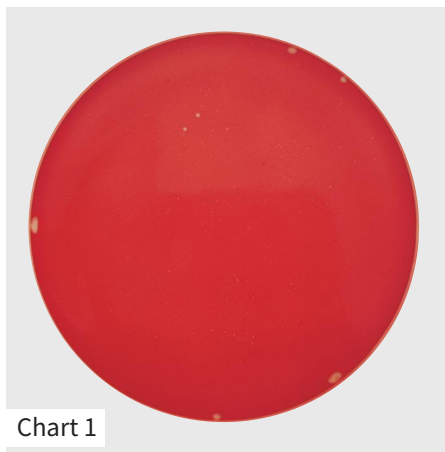


Chart 1

E. coli count = 0

The bubbles at the edge of the culture area in the figure are bubbles in the sample or bubbles pressed into the sample during the addition process.

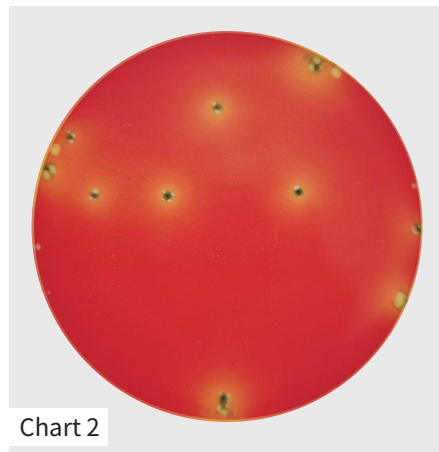


Chart 2

E. coli count = 11

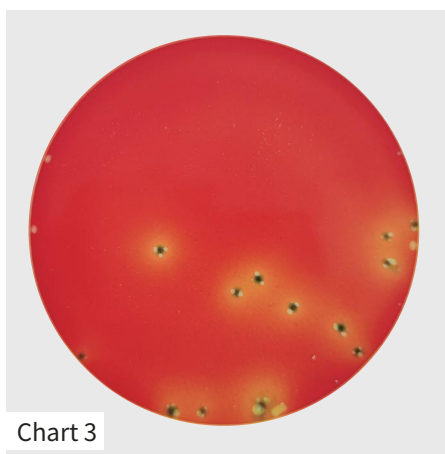


Chart 3

E. coli count = 13

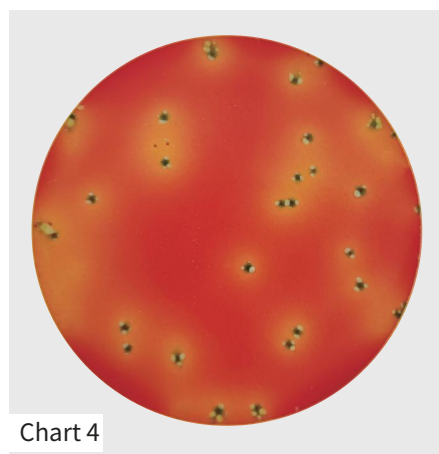


Chart 4

E. coli count = 29
Coliform count = 33

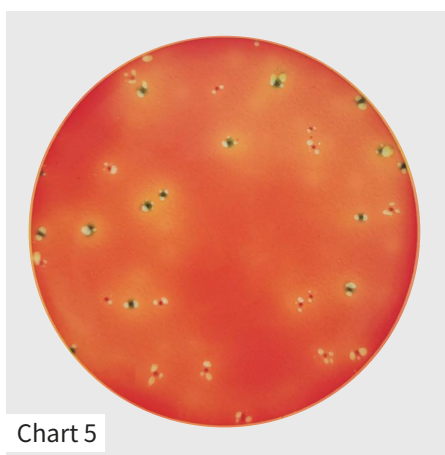


Chart 5

E. coli count = 15
Coliform count = 32

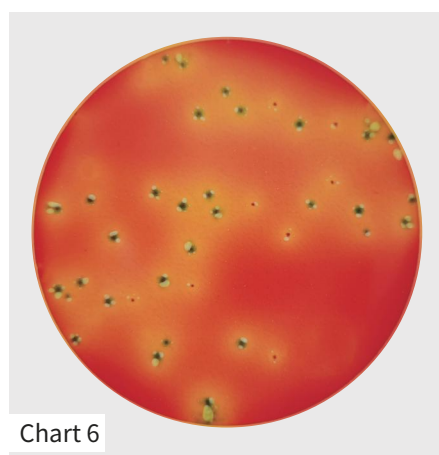


Chart 6

E. coli count = 32
Coliform count = 41

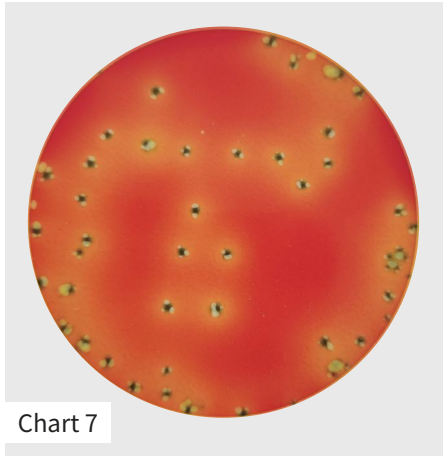


Chart 7

E. coli count = 49

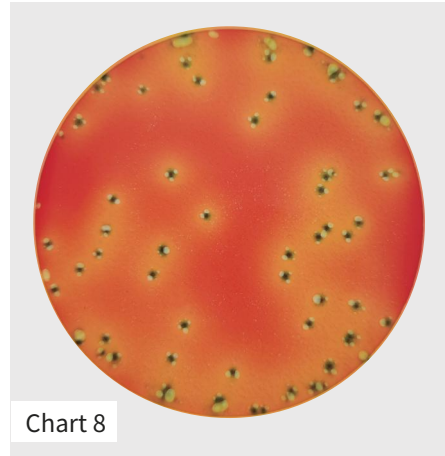


Chart 8

E. coli count = 54

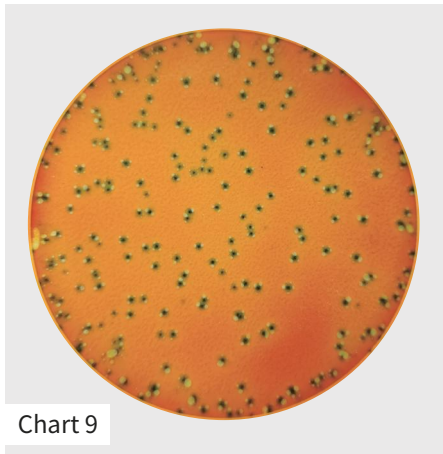


Chart 9

E. coli count = 209

The sample needs to be further diluted to obtain an accurate count.

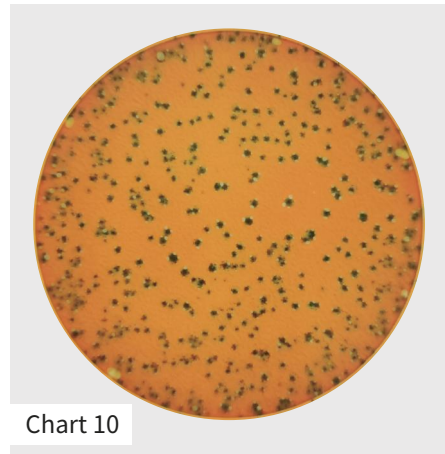


Chart 10

E. coli count $\approx$ 500 TNTC (Too Numerous To Count)

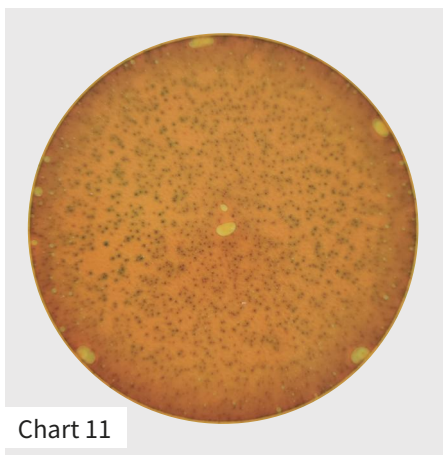


Chart 11

E. coli count $\approx$ 5000 TNTC

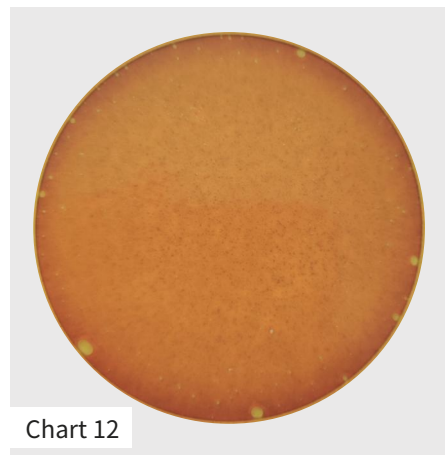
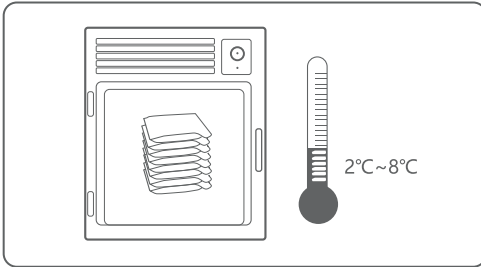


Chart 12

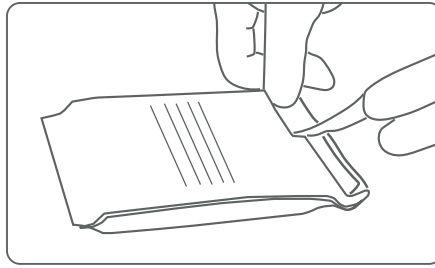
E. coli count $\approx$ 5W TNTC

Instructions

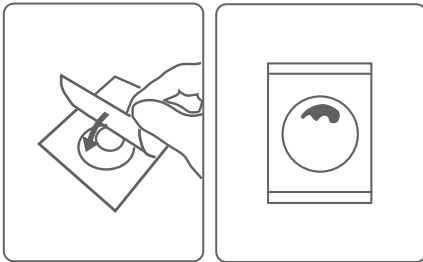
Storage



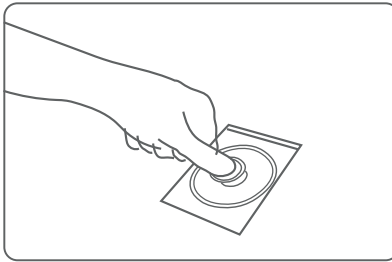
1. Store unopened CountEasy plate at 2°C~8°C and use before the expiration date indicated on the package.



2. Unused CountEasy plate should be sealed after opening the bag. Roll up the opening of the packaging and seal it with tape or use a sealing clip, put them into a sterile bag. Store them on a sterile workbench or in refrigerator and finish them within one month.

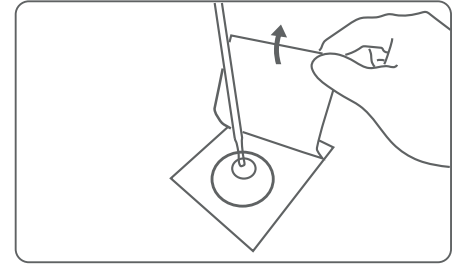


4. Slowly lower the upper membrane.



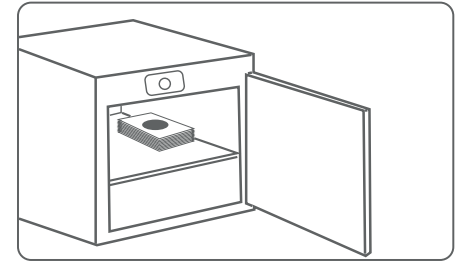
5. place the sample spreader in the center of the upper membrane, and apply gentle pressure after 1-2 seconds, ensure the sample solution evenly covers the circular culture medium.

Inoculation



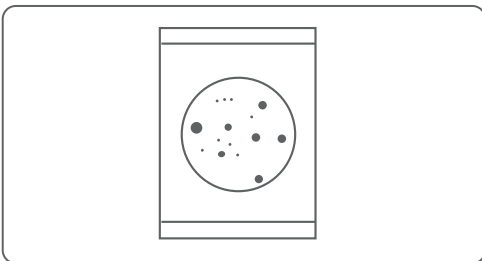
3. Place the CountEasy plate on a flat table, open the cover film of the CountEasy plate. Use a sterile pipette to absorb 1 mL of the sample, and evenly drop it vertically onto the center of the bottom film of the circular culture medium.

Cultivate



6. Stack the CountEasy plate horizontally in a constant temperature incubator, with no more than 20 CountEasy plates stacked. Incubate for 18~24 hours, the incubation temperature follows local standards.

Interpretation



7. Follow to the product manual to count. If necessary, a magnifying glass or colony counter can be used to assist in the counting. If colonies grow outside the designated culture area, they shall still be included in the count in accordance with the counting rules.

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