

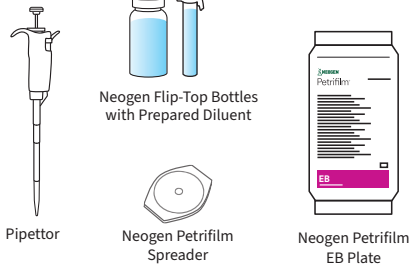


Petrifilm®

Less time. Less consumables.
Less variability. More peace of mind.

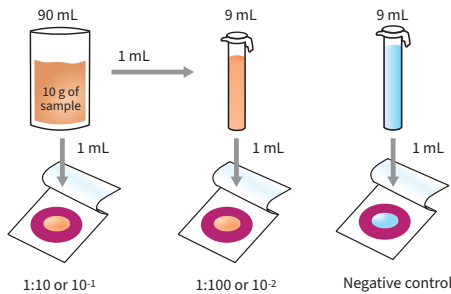
Protocol Comparison to Agar Method

Neogen® Petrifilm® *Enterobacteriaceae* Count (EB) Plate Method



1 Day to Results

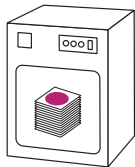
1. Prepare sample, dilute, and plate
1 mL onto the Petrifilm Plate



2. Roll down the top film and press the flat side of the Neogen Petrifilm Spreader onto the sample.



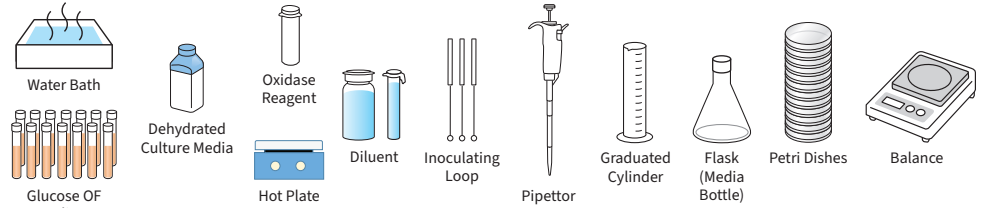
3. Incubate 24±2h
(see validations table on the next page)



4. Enumerate colonies using the Neogen Petrifilm Plate Reader Advanced
Petrifilm Plates can also be counted manually



Traditional Method

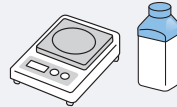


Up to 3 Days to Results

1. Measure water



2. Weigh dehydrated medium



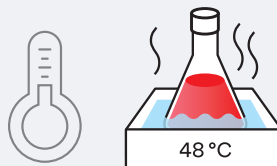
3. Mix dehydrated medium and water



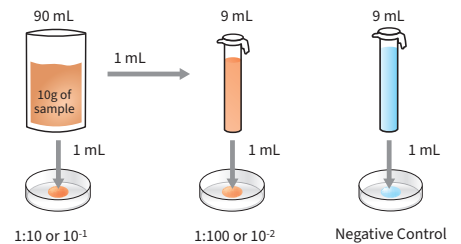
4. Heat until Boiling



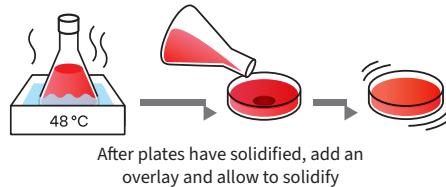
5. Temper agar



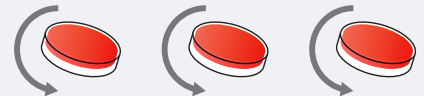
6. Prepare sample, dilute, and plate
1 mL onto plates



7. Pour tempered agar into plates, swirl to mix



8. Wait for plates to solidify and then invert



9. Incubate 24±2h
(refer to industry standard)



10. Enumerate colonies
Count purple red colonies surrounded by zone of precipitated bile acids.



11. Final Step
+ 2 Days to Result

Subculture an isolated colony onto a non-selective agar medium incubating at 37 °C for 24 ± 2 hours. Test isolated colonies for oxidase reaction. Test oxidase negative colonies for glucose fermentation incubating at 37 °C for 24 ± 2 hours.



24-hour results. Instant peace of mind.

Method

Petrifilm *Enterobacteriaceae* Count Plate
ISO 21528-2

Time to Result

24±2 hours

24–72 hours



Product Information

Stack Height	Stacks of 20 or Less
Optimum pH range	6.5–7.5
Recommended Counting Range	≤100 CFU
Counting Area	20 cm ²
Spreader Type	Petrifilm Spreader 6496
Compatible With	Petrifilm Plate Reader Advanced*



International Validations for Neogen Petrifilm EB Plates

Method/Certificate	Scope	Temperature	Time
AOAC® OMA™ 2003.01	Select Foods	37°C ± 1°C	24h ± 2h
NF Validation by AFNOR Certification 3M 01/06-09/97	All Human Food Products, Animal Feed and Industrial Environmental Samples	30°C ± 1°C or 37°C ± 1°C	24h ± 2h

See how Petrifilm Plates can help your lab.



76%
Less energy



79%
Less water



75%
Less CHG
emissions



66%
Less waste



Save analysis
time by
48%
on average**



Results in
6
seconds or
less



Data in
up to
1/2
the time**



Up to
85%
less space
than agar***

* Validated with the use of Petrifilm Plate Reader Advanced through AFNOR Certification

** Excludes passive time (e.g. incubation time and autoclave cycles).

*** Results compared to traditional agar plates.

Streamline lab operations — visit info.neogen.com/petrifilm



Neogen Corporation, 620 Leshar Place, Lansing, MI 48912 USA.

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