

PRODUCT INFORMATION

Product Type: PD536 - PETRI DISHES 90mm

LD576 – Little Dishes PETRI DISHES 50mm

Cat No. PD536 / LD576 - NGM AGAR

Intended Use:

NGM Agar (Nematode Growth Medium Agar) is a standard solid medium used for the cultivation and maintenance of the nematode *Caenorhabditis elegans* (*C. elegans*) in laboratory research.

Principles and uses:

- **NGM Agar** provides a nutrient-rich, buffered environment that supports the growth of *E. coli* (usually strain OP50), which serves as the food source for *C. elegans*.
- The medium is designed to maintain osmotic balance, supply essential salts, and provide a stable surface for nematode movement and feeding.
- Cholesterol is included as it is an essential nutrient for *C. elegans*, which cannot synthesize it de novo.
- Used for cultivation and maintenance of *C. elegans* for genetic, developmental, and behavioral studies, for screening and drug testing using *C. elegans* as a model organism and for teaching and demonstration of nematode biology.

Composition:

Peptone - 2.5 g/L
Agar - 18 g/L
Sodium Chloride - 3 g/L
Cholesterol (Sheep Wood Powder) - 5 mg/L
MgSO₄ 1M - 1 ml/L
Potassium Phosphate 1M pH 5.8 - 25 ml/L
CaCl₂ 1M - 1 ml/L
Ethanol - 1 ml/L

Storage: 2-8 °C

Appearance: Light amber, translucent

pH Range: 6.0 - 6.3

Package contents: PD536 - 10 plates in a package, LD576 – 5 plates in a package

Exp. Date: Printed on label and on the item.

Required materials not supplied: Laboratory equipment as required.

Warning and Precautions:

For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.

If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Storage Instructions: On receipt, store plates in the dark at 2–8 °C. Avoid freezing and overheating. Do not open until ready to use.

Waste Disposal

After interpretation all items should be destroyed by standard incineration methods.

Performance Testing Results:

GPT:

- 1) Inoculum 10-100 cfu
- 2) Pour 200 microliters from fermentation tube on the plate and streak once to get a rectangular shape on plate.

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond	Reaction
<i>Escherichia coli</i> OP50	WS	33-37 °C	Aerobic, 24 hours	Growth