

PRODUCT INFORMATION

Product Type: PETRI DISHES 90mm

Cat No. PD073 - HY LEGIONELLA MEDIUM

PD074 - HY LEGIONELLA MEDIUM SELECTIVE BCYE

Application

PD073 - *Legionella* Buffered Charcoal Yeast Extract (BCYE) Agar Base: A basal medium used in the isolation of *Legionella* spp. from water samples, environmental and clinical specimens.

PD074 - HY *Legionella* medium selective BCYE - *Legionella* BCYE agar supplemented with glycine, polymyxin B sulphate, vancomycin HCl, and Actidione (cycloheximide) is a highly selective medium designed to isolate *Legionella* species from samples that may contain a wide variety of other microorganisms. The medium's selectivity is enhanced by the inclusion of agents that inhibit the growth of competing gram-negative bacteria, gram-positive bacteria, and fungi, making it particularly useful in clinical diagnostics, environmental monitoring, and research settings where accurate detection and isolation of *Legionella* are critical.

Principles and uses:

Main components included to support *Legionella* spp growth are ferric salts and L-cysteine hydrochloride. The addition of yeast extract and activated charcoal enhanced the media ability to support the growth of *Legionella* spp. ACES buffer minimize fluctuations in pH and α -ketoglutarate improve growth.

Plates are dried before use and the specimen cultured directly onto the surface of the supplemented medium. Plates are then incubated at 35-37°C in a humidified atmosphere, Growth of *Legionella* spp. should occur after 3-7 days incubation. *L. pneumophila* colonies are bluish-white and translucent in appearance.

PD074 - If selective plates are used it is advisable, as with all selective culture techniques, to include a non-selective plate in parallel.

Procedures

- Allow the medium in the plate to dry before use.
 - Observe aseptic techniques.
 - Streak the specimen as soon as possible after receiving. Alternatively, if material is being cultured directly from swab, roll the swab over a small area of the surface at the edge and streak from this inoculated area.
 - **PD073:** Incubate plates in aerobic conditions for 48-72 hours at 35±2 °C.
 - **PD074:** Incubate plates in aerobic conditions for 4-5 days at 35±2 °C
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Composition:

PD073		PD074	
Activated charcoal	1.5 g/L	Activated charcoal	1.5 g/L
Yeast extract	10.0 g/L	Yeast extract	10.0 g/L
ACES buffer	6.0 g/L	ACES buffer	6.0 g/L
Ferric pyrophosphate	0.25 g/L	Ferric pyrophosphate	0.25 g/L
α -Ketoglutarate	1.0 g/L	α -Ketoglutarate	1.0 g/L
L-cysteine hydrochloride	0.4 g/L	L-cysteine hydrochloride	0.4 g/L
Agar	12.0 g/L	Agar	12.0 g/L
		Actidione (cycloheximide)	0.08 g/L
		Glycine	3 g/L
		Polymyxin B Sulfate	13.36 mg/L
		Vancomycin HCL	1 mg/L

Storage: 2-8 °C

Appearance: Gray-black

pH Range: 6.6 - 7.0

Package contents: 10 plates in a package

Shelf life: 3 months

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.

PHL-MI-032-02

Performance Testing Results:**PD073**

GPT: inoculum 10-100 cfu

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond	Reaction 1	
<i>Legionella pneumophila</i>	33156	33-37 °C	Aerobic, 48-72 hours	Growth	Grey- white, glistening, circular, smooth, raised with entire

PD074

GPT: inoculum 10-100 cfu

Inhibitory properties: inoculum 10000 cfu

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond	Reaction 1	
<i>Legionella pneumophila</i>	33156	33-37 °C	Aerobic, 4-5 days	Growth	Grey white, glistening, circular, smooth, raised with entire
<i>Escherichia coli</i>	25922	33-37 °C	Aerobic, 4-5 days	Partially inhibited	
<i>Pseudomonas aeruginosa</i>	27853	33-37 °C	Aerobic, 4-5 days	Partially Inhibited	
<i>Proteus mirabilis</i>	4630	33-37 °C	Aerobic, 4-5 days	Partially Inhibited	
<i>Candida albicans</i>	10231	33-37 °C	Aerobic, 4-5 days	Partially Inhibited	
<i>Staphylococcus aureus</i>	25923	33-37 °C	Aerobic, 4-5 days	Inhibited	

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Implementation Date: 29/07/25

Version Number: 02