

## PRODUCT INFORMATION

**Product Type:** PETRI DISHES 90mm

**Cat No. PD178 - LB + AMPICILLIN 100MG/L**  
**PD221 - LB + AMPICILLIN 200MG/L**

### Intended Use:

Luria Agar (LB Agar) with ampicillin (100 µg/mL or 200 µg/mL) is a selective, nutrient-rich medium widely used in molecular biology for the cultivation and selection of bacteria—especially *Escherichia coli*—that carry plasmids encoding ampicillin resistance. Used for Maintenance and culture of recombinant strains of *E. Coli*.

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### Principles and uses:

Luria Agar (LB Agar) supplemented with ampicillin is widely used for the selective growth of bacteria containing ampicillin resistance plasmids. The most commonly recommended concentration of ampicillin for LB agar or LB broth is 100 µg/mL. This is the standard working concentration for most plasmid selection protocols in molecular microbiology. If higher stringency is required (for example, to suppress satellite colonies or to ensure only highly resistant strains grow), some labs may use 200 µg/mL.

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### Composition

Tryptone 10.0 g/L  
Yeast extract 5.0 g/L  
Sodium chloride 5.0 g/L  
Agar 15.0 g/L  
Ampicillin 100 mg/L – **PD178**  
Ampicillin 200 mg/L – **PD221**

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**Storage:** 2-8°C

**Appearance:** light amber

**pH Range:** 6.8 - 7.2

**Package contents:** 10 plates in a package

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

**Required materials not supplied:** Laboratory equipment as required.

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**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.

**Performance Testing Results:**

**GPT:**10-100 cfu.

**Inhibitory properties:**1000000 cfu.

	Test	ATCC	Incubation Temp. (°C)	Incubation Cond	Reaction 1
PD178 & PD221	<i>Ampicillin resistant DH5- ALPHA</i>	WS	33-37 °C	Aerobic, 24 hours	Growth
PD178 & PD221	<i>Escherichia coli</i>	25922	33-37 °C	Aerobic, 24 hours	Inhibited
PD221	<i>Ampicillin resistant Z-1205</i>	W.S	33-37 °C	Aerobic, 24 hours	Growth