

PRODUCT INFORMATION

Pseudomonas cepacia Agar

Cat. No. P16-111



ALPHA[™]
BIOSCIENCES

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DESCRIPTION

Pseudomonas Cepacia Agar is a selective agar medium used for the isolation of *Burkholderia cepacia* (formerly *Pseudomonas cepacia*) from clinical and environmental materials. Peptic Digest of Animal Tissue provides nitrogen, vitamins, and carbohydrates. Bile Extract and Crystal Violet are used to inhibit Gram-positive bacteria, while Polymyxin B and Ticarcillin suppress the growth of Gram-negative organisms. Magnesium Sulfate, Ammonium Sulfate, and Ferrous Ammonium Sulfate are used to promote the growth of *Burkholderia cepacia*. Dipotassium Phosphate and Monopotassium Phosphate serve as pH buffering agents. Sodium Pyruvate is utilized by *B. cepacia*, thus producing alkaline by-products and causing the Phenol Red indicator to turn pink to hot-pink in color. Agar is the gelifying agent.

PREPARATION

Mix 30 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring to dissolve completely.

Autoclave at 121°C for 15 minutes. Cool medium to < 50°C. Aseptically add 10 milliliters of a sterile solution containing 100 mg Ticarcillin and 300,000 units of Polymyxin B Sulfate dissolved in 10 milliliters of processed water (filter-sterilized).

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and light beige.
2. Visually the prepared medium is peach in color, with trace to slight haze.
3. Expected cultural response after 24-48 hours at 30-35°C.

Formula* per Liter:

Peptic Digest of Animal Tissue	1.0g
Ox bile.....	1.5g
Sodium Pyruvate.....	5.0g
Ammonium Sulfate.....	1.0g
Monopotassium Phosphate	2.1g
Dipotassium Phosphate	4.3g
Magnesium Sulfate	0.2g
Ferrous Ammonium Sulfate	0.01g
Phenol Red	0.02g
Crystal Violet.....	0.001g
Agar	15.0g

Final pH: 7.1 ± 0.2 at 25°C

* Grams per liter may be adjusted or formula supplemented to obtain desired performance.

Microorganisms	Approx Inoculum (CFU)	Growth	Reaction
<i>Burkholderia cepacia</i> ATCC® 25416	10-300	Good	Lime green colonies, pink medium
<i>Pseudomonas aeruginosa</i> ATCC® 27853	~ 1000	Inhibited	-
<i>Escherichia coli</i> ATCC® 25922	~ 1000	Inhibited	-
<i>Staphylococcus aureus</i> ATCC® 25923	~ 1000	Inhibited	-

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.