

Product Information

Phytigel™

Catalog Number **P8169**
Store at Room Temperature

Product Description

Phytigel™ is an agar substitute produced from a bacterial substrate composed of glucuronic acid, rhamnose, and glucose. It produces a high-strength gel, which aids in the detection of microbial contamination. Phytigel provides an economical alternative to agar as a gelling agent.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Phytigel requires the presence of divalent cations to form a gel matrix. The concentrations of calcium and magnesium contained in most plant tissue culture media are typically sufficient for gelation. Low-salt media formulations, especially those used in microbiological applications, may require supplementation with additional calcium or magnesium salts (e.g., CaCl₂ or MgSO₄) or higher concentrations of Phytigel to form a gel.

Phytigel should be added slowly to the medium at room temperature with rapid stirring to eliminate any lumps before heating. If it is added to warm or hot medium, it will lump and not gel properly after autoclaving. The congealing temperature is 27–32 °C. The typical working concentration is 1.5–2.5 g/L in plant tissue culture media and up to 10 g/L in microbiological media.

Storage/Stability

Store the product at room temperature.

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