

Nov 06, 2018

Pseudomonas isolation agar

DOI

<https://dx.doi.org/10.17504/protocols.io.vcre2v6>

katy monteith¹

¹University of Edinburgh

Vale Lab



Katy M Monteith

University of Edinburgh

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.vcre2v6>

Protocol Citation: katy monteith 2018. Pseudomonas isolation agar. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.vcre2v6>

License: This is an open access protocol distributed under the terms of the **[Creative Commons Attribution License](#)**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: November 06, 2018

Last Modified: November 06, 2018

Protocol Integer ID: 17521

Keywords: Pseudomonas, agar, isolation, pseudomonas isolation agar this protocol, pseudomonas isolation agar, specific isolation media such as pseudomonas isolation media, pseudomonas isolation media, specific isolation media, culturing of pseudomona, pseudomona, bacterial species on plate, particular bacterial strain, diiferent bacterial species, bacterial species, plate contamination, risk of plate contamination, genus, plate

Abstract

This protocol describes how to make 1 L of *Pseudomonas* isolation agar for the culturing of *Pseudomonas* bacterial species on plates.

The use of a genus specific isolation media such as *Pseudomonas* isolation media reduces the risk of plate contamination with a different bacterial species when trying to isolate a particular bacterial strain.

Guidelines

Once *Pseudomonas* isolation media has been autoclaved, all work should be carried out in a laminar flow hood to prevent contamination.

1 L of *Pseudomonas* isolation agar makes ~20 plates.

At 4 °C unused plates can be stored for around 2 weeks prior to use.

Once used, plates containing bacterial colonies can be stored in air-tight container/bag at 4 °C for a maximum of 2 weeks.

Prior to disposal, plates containing bacterial colonies must be wrapped in Parafilm and autoclaved.

Materials

MATERIALS

⊗ Glycerol A.R Scientific Laboratory Supplies Ltd Catalog #CHE2068

⊗ Pseudomonas Isolation agar Merck MilliporeSigma (Sigma-Aldrich) Catalog #17208-500g

Safety warnings

! Read SDS for *Pseudomonas* Isolation Agar before use.

Bottle can be extremely hot immediately following autoclave. Use thermal gloves for handling.



- 1 Add 45.03 g *Pseudomonas* isolation agar and 20 mL of 100% glycerol per 980 mL of water.
- 2 Mix well by inverting bottle several times until powder dissolved.
- 3 Sterilize by autoclaving for 20 min at 15 psi (1.05 kg/cm²) on liquid cycle.
- 4 Following autoclave (while media still liquid) pour *Pseudomonas* isolation agar from bottle into plates within a laminar flow hood. Allow ~50 mL per plate.
- 5 Leave plates in laminar hood until agar sets.
- 6 When agar has set, invert plates and store in an air tight bag at 4 °C.
- 7 Plates should be removed from 4 °C at least 1 h before use and placed at room temperature. To prevent condensation from lid dropping onto agar surface, wipe lids dry with Kimwipe before placing at room temperature and store plates inverted.