

## Product Information

# Hemin Solution

Ready-made microbial growth medium supplement, 0.5 g/L

**MBD0052**

## Product Description

Hemin readymade solution is used as a culture-medium supplement for fastidious anaerobic microorganisms, shown to enhance the growth of many anaerobes including *Bacteroides* species and certain gram-positive non-spore forming organisms<sup>(1,2)</sup>. It is present as a key ingredient compound in common anaerobic growth media, such as Brucella broth, Thioglycolate broth and Reinforced Clostridial Medium.

## Features and Benefits

- Convenient readymade solution to speed up media preparation
- Sterile solution
- Optimal mixture for growth of fastidious bacteria as well as diversified culturing of microbial samples

## Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

## Storage/Stability

Store this product at 4 °C.

Protect from light.

## Preparation Instructions

- For 100 mL of medium preparation, it is recommended to add 1 mL of hemin ready-made solution after autoclaving the medium, to achieve a final concentration of 5 microgram/mL. The optimal concentration of the supplement may vary for each strain. The solution is classified as light sensitive.
- The solution should not be heated and must be added aseptically to autoclaved media cooled to 50-55 °C.

- Select strains which show turbid growth (24-48 hours) with Hemin supplementation: *Porphyromonas gingivalis*, *Bifidobacterium longum*, *Clostridium perfringens*, *Bacteroides vulgatus* and *Fusobacterium nucleatum*.

## References

1. Murray, P.R., E.J. Baron, M.A. Pfaller, F.C. Tenover, and R.H. Yolken, 1995, Manual of clinical microbiology, 6th ed. American Society for Microbiology, Washington, D.C.
2. Ronald J. Gibbons and John B. Macdonald. "Hemin and vitamin K compounds as required factors for the cultivation of certain strains of *Bacteroides melaninogenicus*", 1960, *Bacteriol*, 80(2), 164-170.

## Notice

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

The information in this document is subject to change without notice and should not be construed as a commitment by the manufacturing or selling entity, or an affiliate. We assume no responsibility for any errors that may appear in this document.

## Technical Assistance

Visit the tech service page at [SigmaAldrich.com/techservice](https://SigmaAldrich.com/techservice).

## Terms and Conditions of Sale

Warranty, use restrictions, and other conditions of sale may be found at [SigmaAldrich.com/terms](https://SigmaAldrich.com/terms).

The life science business of Merck operates as MilliporeSigma in the U.S. and Canada.

Merck and Sigma-Aldrich are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. All other trademarks are the property of their respective owners. Detailed information on trademarks is available via publicly accessible resources.

© 2022 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.  
MBD0052pis Rev 08/22

**MERCK**