

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 ^(1,2). 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. Tenover, 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.

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