

# Vitamin K1-Hemin Solution



Supplement used for the cultivation and enumeration of anaerobic microorganisms.

## • CONTENTS (Vial)

(each vial is sufficient for 500 mL of medium)

Hemin	0.005 g
Vitamin K1	0.0005 g

**Storage condition** : Store in the dark, 2 to 6°C

## • PROCEDURE

Suspend proper amounts of dehydrated medium in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Aseptically add vitamin K1-Hemin Solution as desired. Mix well. Pour into final containers.

## • INTERPRETATION

Vitamin K1-Hemin Solution is a supplement used for the cultivation and enumeration of anaerobic microorganisms. Hemin and Vitamin K1 are the growth factors.

## • QUALITY CONTROL FOR USE

Appearance : opaque

Color : black

Incubation conditions : 36 ± 1°C / 24 - 48 hours up to 4 days under anaerobic condition

Microorganism	ATCC	Growth
<i>Bacteroides fragilis</i>	25285	good
<i>Clostridium perfringens</i>	13124	good

## • STORE

Store the supplement at 2 to 6°C in its original package tightly closed and use it before the expiry date on the label. Keep away from sources of heat and avoid excessive changes of temperature.

## • REFERENCE

- Gibbons, R. J. and J. B. MacDonald. 1960. Hemin and vitamin K compounds as required factors for the cultivation of certain strains of *Bacteroides melaninogenicus*. J. Bacteriol. 80:164-170.
- Murray and Citron. 1991. In Balows, Hausler, Herrmann, Isenberg and Shadomy (ed.), Manual of clinical microbiology, 5th ed. American Society for Microbiology, Washington, D.C.
- Jousimies-Somer, Summanen and Finegold. 1999. In Murray, Baron, Pfaller, Tenover and Tenover (ed.), Manual of clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C.

## • PACKAGE

Cat. No : MB-V0761 Vitamin K1-Hemin Solution	1 vial
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