

King's OF HiVeg™ Medium Base

MV1235

King's OF HiVeg Medium Base is used for studying oxidation-fermentation of carbohydrates by *Campylobacter* species.

Composition ** :

Ingredients	Grams/Litre
HiVeg hydrolysate	0.2
Phenol red	0.003
Agar	0.3

Final pH (at 25°C) 7.4 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Directions :

Suspend 0.5 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 40 - 50°C and aseptically add filter sterilized solution of desired carbohydrate to get a final concentration of 1% and dispense in sterile tubes.

Principle and Interpretation :

This medium is prepared by using HiVeg hydrolysate in place of Casein enzymic hydrolysate which makes the medium free of BSE/TSE risks. King's OF HiVeg Medium Base is the modification of King's OF Medium Base which is formulated as recommended by APHA (1) for studying the oxidation-fermentation reaction of carbohydrates by *Campylobacter* species.

This medium is a relatively simple medium which contains HiVeg hydrolysate to supply nitrogenous compounds for the growth of *Campylobacter* species. Phenol red is the pH indicator. Oxidation of carbohydrate is indicated by yellow colour formation. The medium will be yellow (acid) when removed from the microaerobic atmosphere due to carbon dioxide (CO₂) absorption. To read OF reactions, let tubes stand at room temperature until OF control becomes neutral or alkaline, usually within 2 hours.

Product Profile :

Vegetable based (Code MV)©		Animal based (Code M)	
MV1235	HiVeg hydrolysate	M1235	Casein enzymic hydrolysate
Recommended for	:	Studying oxidation-fermentation of carbohydrates by <i>Campylobacter</i> species.	
Reconstitution	:	0.50 g/l	
Quantity on preparation (500g):	:	1000.0 L	
(100g):	:	200.0 L	
pH (25°C)	:	7.4 ± 0.2	
Supplement	:	Carbohydrate	
Sterilization	:	121°C / 15 minutes.	
Storage	:	Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.	

Quality Control :**Appearance of powder**

Light pink coloured, homogeneous, free flowing powder.

Gelling

Semisolid, comparable with 0.03% Agar gel.

Colour and Clarity

Red coloured, clear to slightly opalescent gel forms in tubes as butts.

Reaction

Reaction of 0.05% w/v aqueous solution is pH 7.4 ± 0.2 at 25°C

Cultural Response

Cultural characteristics observed after an incubation at 42°C for 24-48 hours in reduced oxygen atmosphere with added Dextrose.

Organisms (ATCC)	Growth	Acid*
<i>Campylobacter jejuni</i> (29428)	good	+

Key : + = positive reaction, yellow colour

* = w/Dextrose

References :

- Vanderzant C and Splittstoesser DF (Eds.), 1992, Compendium of Methods for the Microbiological Examination of Foods, 3rd ed., APHA, Washington, D.C.