



## Product Data Sheet

### **KING'S OF MEDIUM BASE**

**Product No.** GB-DCM-00259-1A

### **INTENDED USE**

For studying oxidation fermentation of carbohydrates by Campylobacter species.

### **PRODUCT SUMMARY**

Campylobacter is a motile gram-negative bacterium that causes Campylobacteriosis when it gets lodged in the walls of intestine. They are usually carried in the intestinal tract of animals and therefore contaminate foods of animal origin. Although raw milk is a frequently reported vehicle of outbreaks of Campylobacter enteritis, studies have revealed that mishandled poultry is more important than raw milk in transmitting Campylobacter jejuni enteritis. The utilization pattern for several carbohydrates (e.g. lactose, maltose, xylose, sucrose etc.) is often needed to help identify an organism genus and species. Kings OF Medium is formulated as recommended by APHA for studying the oxidation-fermentation reaction of carbohydrates by Campylobacter species.

### **Product Specifications**

<b>Ingredients</b>	<b>Gms / Ltr</b>
Tryptone	0.200
Phenol red	0.003
Agar	3.000

### **PRINCIPLE**

Kings OF Medium contains tryptone, which supplies nitrogenous compounds required for the growth of Campylobacter species. Phenol red is the pH indicator. Oxidation of carbohydrate is indicated by a yellow colour formation. The medium will be yellow (acid) when removed from the microaerobic atmosphere due to CO<sub>2</sub> absorption. To read OF reactions, let the tubes stand

at room temperature until the OF control becomes neutral or alkaline, usually within 2 hours.

### **INSTRUCTION FOR USE**

- Dissolve 0.5 grams in 1000 ml purified/distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi 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.



**QUALITY CONTROL SPECIFICATIONS**

Appearance of Powder: Cream to yellow homogeneous free flowing powder  
 Appearance of prepared medium: Purple coloured, clear to slightly opalescent gel forms in tubes as butts.  
 pH (at 25°C) : 6.7 ± 0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Acid (with dextrose)	Incubation Temperature	Incubation Period
Campylobacter jejuni subsp. jejuni	29428	50-100	Good	Positive reaction, yellow colour	42°C	42-48 Hours

**STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

**DISPOSAL**

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**This product is for research use only.**