

# Bordetella Supplement

- For in vitro use only -



## Catalogue No.

VB70-05 Bordetella Selective Supplement [5-mL / 500-mL] (Frozen Liquid)  
LB70-05 Bordetella Selective Supplement [5-mL / 500-mL] (Lyophilized)

Our Bordetella Supplement is intended for incorporation into a Regan-Lowe charcoal base. The completed medium is used for the selective isolation of *Bordetella* species.

Bordetella Supplement contains the first generation cephalosporin, cephalixin. Cephalixin has good gram-positive activity and modest gram-negative activity. The inclusion of cephalixin into charcoal agar provides superior suppression of nasopharyngeal flora as shown by Regan and Lowe, as well as Sutcliffe and Abbott. However, the use of cephalixin retards the growth of *Bordetella*, and necessitates a prolonged incubation period of four to five days at 35°C to obtain good growth.

A half-strength formulation of Regan-Lowe Agar can be prepared and used as a transport medium (Dalynn TR35) for nasopharyngeal specimens. Please refer to the appropriate technical information sheets for more detailed information on use and precautions associated with each medium.

## Active Ingredients per 5-mL Vial (Each vial prepares 500-mL of media)

Cephalixin..... 20.0 mg

## Appropriate Commercial Bases

Manufacturer	Description	Catalogue No.
Acumedia	Charcoal Agar	7586A
BBL	Regan-Lowe Charcoal Agar	298123
Difco	Charcoal Agar	289410
Merck	N/A	N/A
Oxoid	Charcoal Agar	CM0119

## Reconstitution Procedure

The lyophilized supplement must be reconstituted prior to using:

1. Aseptically add 5.0-mL of cool, sterile, purified water to the vial.
2. Swirl vial gently until supplement is completely dissolved.

## Recommended Method for Media Preparation

### Regan-Lowe Agar Plates

1. Allow all supplements and additives to warm to room temperature prior to their addition.
2. Prepare and sterilize 500 mL of Charcoal Agar Base or Regan-Lowe Agar Base according to the manufacturer's instructions.
3. Cool the sterilized base to approximately 45 to 50°C.
4. Aseptically add the contents of one well-mixed vial of Bordetella Supplement and 50 mL of defibrinated horse blood. Incorporate thoroughly by gently swirling.
5. Pour the completed medium (16 mL to 20 mL) into sterile petri dishes.
6. Allow medium to set on a level surface.

### Regan-Lowe Transport Medium

1. Allow all supplements and additives to warm to room temperature prior to their addition.
2. Prepare and sterilize 500 mL of **half-strength** Charcoal Agar Base or Regan-Lowe Agar Base according to the manufacturer's instructions.
3. Cool the sterilized base to approximately 45 to 50°C.
4. Aseptically add the contents of one well-mixed vial of Bordetella Supplement and 50 mL of defibrinated horse blood. Incorporate thoroughly by gently swirling.
5. Dispense the completed medium into sterile tubes. This is a semi-solid medium.
6. Allow medium to set on a level surface.

## Precautions & Notes

- *Avoid exposing Bordetella Supplement to extraneous sources of heat during storage or defrosting*

## Quality Control

The following organisms are used to determine the performance of the completed medium. Inoculate and incubate aerobically at 35°C for 5 to 7 days. A moist atmosphere (60 to 70% humidity) is beneficial for the recovery and growth of *Bordetella* species.

Organism	Expected Results
<i>Bordetella pertussis</i> ATCC 8467	Growth
<i>Staphylococcus aureus</i> ATCC 25923	Inhibition
<i>Escherichia coli</i> ATCC 25922	Inhibition

## **Storage and Shelf Life**

Our frozen Bordetella Supplement has a shelf life of 26 weeks from the date of manufacture when stored at -20°C. The lyophilized supplement has a shelf life of 104 weeks (2 years) from the date of manufacture when stored at 4 to 8°C.

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