

# CNA Supplement



- For in vitro use only -

## Catalogue No.

VC70-05 CNA Supplement [5-mL / 500-mL] (Frozen Liquid)

LC70-05 CNA Supplement [5-mL / 500-mL] (Lyophilized)

A selective supplement used in the isolation of gram-positive cocci when incorporated into Columbia agar with 5% sheep blood. Colistin is a polypeptide antibiotic of the polymyxin group, and nalidixic acid is a first-generation quinolone; both are primarily active against gram-negative bacteria thereby making Columbia CNA Agar a good medium for the selective isolation of gram-positive cocci. *Enterobacteriaceae* and *Pseudomonas* species are suppressed while allowing yeast, staphylococci, streptococci and enterococci to grow.

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

Colistin..... 5.0 mg  
Nalidixic Acid..... 7.5 mg

## Appropriate Commercial Bases

Manufacturer	Description	Catalogue No.
Acumedia	Columbia Blood Agar Base	7125A
BBL	Columbia Agar Base	211124
Difco	Columbia Blood Agar Base	279240
Merck	Columbia Agar	1.10455
Oxoid	Columbia Blood Agar Base	CM331

## Reconstitution Procedure

The lyophilized supplement must be reconstituted prior to use:

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

1. Allow one 5.0-mL vial of CNA Supplement to adjust to room temperature prior to using.
2. Prepare and sterilize 500-mL of Columbia Agar according to the manufacturers recommendations.
3. Cool medium to 45 to 50°C in a water bath.
4. Mix supplement well before adding.

5. Aseptically add the 5.0-mL vial of CNA Supplement and 25-mL of defibrinated sheep blood to the medium; mix well to incorporate the supplement and blood thoroughly into the medium.
6. Dispense medium into sterile petri dishes.
7. Allow medium to set on a cool, level surface.

### Quality Control

The following organisms are used to determine the performance of the completed medium. Inoculate and incubate at 35°C in a CO<sub>2</sub>-enriched environment for up to 48 hours.

Organism	Expected Results
<i>Streptococcus pyogenes</i> ATCC 19615	Growth, β-hemolysis
<i>Streptococcus pneumoniae</i> ATCC 6305	Growth, α-hemolysis
<i>Staphylococcus aureus</i> ATCC 25923	Growth
<i>Proteus mirabilis</i> ATCC 12453	Inhibition

### Storage and Shelf Life

Our frozen CNA 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.

Original: December 2003 Updated: November 2007 Checked: January 2014