

NAD Supplement



- For in vitro use only -

Catalogue No.

VN15-05 NAD Supplement [5-mL / 500-mL] (Liquid)

LN15-05 NAD Supplement [5-mL / 500-mL] (Lyophilized)

A nutritional supplement used in the production of *Haemophilus* Test Medium, which is used in the antimicrobial disk diffusion susceptibility testing of *Haemophilus* species. The active ingredient, β -nicotinamide adenine dinucleotide (NAD), is a key nutritional element required by most *Haemophilus* species for growth.

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

NAD..... 7.5 mg

Appropriate Commercial Bases

Manufacturer	Description	Catalogue No.
Difco	Mueller Hinton Agar	225250
BBL	Mueller Hinton II Agar	211438
Oxoid	Mueller Hinton Agar	CM337

Reconstitution Procedure

The lyophilized supplement must be reconstituted prior to use:

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

Recommended Method for Media Preparation (Rose Bengal Agar)

1. Allow one 5.0-mL vial of NAD Supplement to adjust to room temperature prior to using.
2. Prepare 500-mL of Mueller Hinton Agar as outlined by manufacturers instructions along with yeast extract (5.0-g/L) and solubilized hematin (0.015-g/L). The medium should be mixed with heat until boiled and transferred to an autoclave for sterilization.
3. Autoclave medium for 15 minutes at 121°C.
4. After sterilization, cool medium to 45 to 50°C in a warm water bath.
5. Mix supplement well before adding. Add the 5.0-mL vial of NAD Supplement to the medium; mix well to incorporate the supplement thoroughly into the medium.
6. Pour the completed medium into sterile petri dishes.
7. Allow medium to set on a level surface.

Quality Control

The following organisms are used to determine the performance of the completed medium. Inoculate and incubate in a CO₂-enriched atmosphere at 35°C for 18 to 24 hours.

Organism	Expected Results
<i>Haemophilus influenzae</i> ATCC 49247	Growth
<i>Haemophilus influenzae</i> ATCC 49766	Growth
<i>Haemophilus influenzae</i> ATCC 10211	Growth

Storage and Shelf Life

Our frozen NAD Supplement has a shelf life of 32 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 2006 Updated: December 2006 Checked: January 2014