

Safety Data Sheet

NADP/NADPH Assay Kit

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: NADP/NADPH Assay Kit
Item Number: Z5030038
Manufacturer: Biochain Institute, Inc.
 39600 Eureka Drive
 Newark, CA 94560. USA
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2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

P302 + P352: *If on skin:* Wash with plenty of soap and water.

P304 + P340: *If inhaled:* Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: *If in eyes:* Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a doctor/ physician if you feel unwell.

P332 + P313: If skin irritation occurs: Get medical advice/ attention.

P337 + P313: If eye irritation persists: Get medical advice/ attention.



3. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains the following components and mixture of the following substances with non-hazardous additions.

Assay Buffer: 10 mL Liquid

Contains 0.1-3% tris(hydroxymethyl)aminomethane (CAS #: 77-86-1)

Glucose: 1.5 mL Liquid

Contains 1-20% glucose (CAS Number 50-99-7)

MTT Solution: 1.5 mL Liquid

Contains 1-10% 3-(4,5-dime-thylthiazol-2-yl)-2,5-diphenyl-2H-tetrazolium bromide (CAS#: 298-93-1).

Enzyme Mix: 120 µL Liquid

Contains 0.1-2% potassium phosphate (CAS#: 7758-11-4)

NAD(P) Extraction Buffer: 12 mL Liquid

Contains <0.4% hydrochloric acid (CAS #: 7647-01-0)

NAD(P)H Extraction Buffer: 12 mL Liquid

Contains <0.4% sodium hydroxide (CAS #: 1310-73-2)

NADP Standard: 0.5 mL Liquid

Contains <0.1% β-nicotinamide adenine dinucleotide phosphate (CAS #: 53-59-8)

4. FIRST AID MEASURES

Eye: Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin: Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention. Wash contaminated clothing before reuse.

Inhalation: Nasal irritation, headache, dizziness, nausea, vomiting, heart palpitations, breathing difficulty, cyanosis, tremors, weakness, red flushing of face, irritability. Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

Ingestion: Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.

5. FIRE FIGHTING MEASURES

Extinguishing media: water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special firefighting procedures: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards: emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Vapor protective clothing should be worn for spills and leaks. Shut off ignition sources; no flares, smoking or flames in hazard area. Small spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spills: Dike far ahead of liquid spill for later disposal. Do not flush to sewer or waterways. Prevent release to the environment if possible.

7. HANDLING AND STORAGE

Keep receptacles tightly sealed. Store product at -20°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Follow standard laboratory safety procedures, including wearing chemical safety goggles, face shield, gloves, NIOSH approved respiratory protection and protective clothing. Wash and dry hands.

9. PHYSICAL AND CHEMICAL PROPERTIES

Refer to 3. Composition/Information On Ingredients.

10. STABILITY AND REACTIVITY

Thermal Decomposition: no decomposition if used according to specifications.

Dangerous Products of Decomposition: nitrogen and sulfur oxides.

Dangerous Reactions: none.

11. TOXICOLOGICAL INFORMATION

The toxicological effects of this product have not been thoroughly studied. We recommend handling all chemicals with caution.

Tris - Oral LC50 rat: > 3,000 mg/kg; Inhalation: no data available; LD50 Dermal rat: > 5,000 mg/kg; Skin corrosion/irritation: Skin rabbit, No skin irritation.

3-(4,5-dime-thylthiazol-2-yl)-2,5-diphenyl-2H-tetrazolium bromide - Acute toxicity, no data available; Inhalation: no data available; Dermal: no data available; Skin corrosion/irritation: no data available; Serious eye damage/eye irritation: no data available.

12. ECOLOGICAL INFORMATION

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

13. DISPOSAL INFORMATION

Dispose in accordance with local, state or national regulations.

14. TRANSPORT INFORMATION

DOT (US):	Not regulated
UN Number:	Not regulated
Class:	Not regulated
Packaging Group:	Not regulated

15. REGULATORY INFORMATION

OSHA Hazards: irritant, mutagen

SARA 311/312 Hazards: chronic health hazard

16. OTHER INFORMATION

The above information is believed to be accurate, but does not purport to be all inclusive and shall be used only as a guide. BioChain makes no warranty, express or implied, and assumes no responsibility as to the accuracy or suitability of such information or application to the User's intended purpose or for consequences of its use. The Users should make independent decisions regarding the completeness of information based on all sources available.