

Revision Number: 1.0

Last updated 1st March 2017**1. PRODUCT AND COMPANY IDENTIFICATION**

Trade Name: ChromaDazzle NAD/NADH Ratio Assay Kit
Item Number: BA0067
Manufacturer: ReagentBio Ireland LTD, Dublin, Ireland
Email: info@assaygenie.com

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*

H315: Causes skin irritation.
H319: Causes serious eye irritation

Precautionary statements

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/clothing and eye/face protection.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P281: Use personal protective equipment as required.

**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 0.5-3% tris(hydroxymethyl)amino-methane (CAS #: 77-86-1).

Lactate: 1.5 mL Liquid

Contains 0.1-10% lithium lactate (CAS #: 867-55-0)

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 A: 120 µL Liquid

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

Enzyme B: 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)

NAD Standard: 0.5 mL Liquid

Contains <0.1% β-nicotinamide adenine dinucleotide (CAS #: 53-84-9)

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

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

Additional Transport Information: transport in accordance with local, state and national regulations.

15. REGULATORY INFORMATION

OSHA Hazards: irritant, mutagen

SARA 311/312 Hazards: acute health hazard, 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. Assay Genie 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.

