



Safety Data Sheet

Revision Date: 1 March 2025

Product Name: DetectX[®] Atrial Natriuretic Peptide Enzyme Immunoassay Kit

Section 1: Identification

Product Name: DetectX[®] Atrial Natriuretic Peptide Enzyme Immunoassay Kit
Also known as: Catalog Numbers K071-H1 or K071-H5, ANP EIA, ANP ELISA
Manufacturer Arbor Assays
/ Supplier 1143 Highland Dr, Ste A
Ann Arbor, MI 48108-5001 Telephone 734-677-1774 (U.S.)
U.S.A.
Recommended Use For Research Use Only

Section 2: Hazard(s) Identification

Classification: Regulation (EC) No. 1272/2008 [CLP/GHS]

Hydrochloric Acid: Skin Irritant, Class 2
Eye Irritant, Class 2

Acetone: Skin Irritant, Class 2
Eye Irritant, Class 2
Flammable Liquid, Category 2



Hazard statements: Causes skin irritation.
Causes serious eye irritation.
Highly flammable liquid and vapor.

Precautionary statements: Wash hands thoroughly after handling.
Wear protective gloves, clothing, and eye/face protection.
Keep away from heat, hot surfaces, open flames, sparks.
Keep container tightly closed.
Use in well-ventilated area.

Section 3: Information on Ingredients

Components: ANP Standard (C095-125UL, C095-625UL)
ANP Antibody (C262-3ML, C262-13ML)
ANP Conjugate (C094-3ML, C094-13ML)
Extraction Solution (X123-50ML, X123-250ML)
Assay Buffer Concentrate (X065-28ML, X065-55ML)
Wash Buffer Concentrate (X007-30ML, X007-125ML)
TMB Substrate (X019-11ML, X019-55ML)
Stop Solution (X020-5ML, X020-25ML)

Description:	<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>
Stop Solution, X020:	Hydrochloric Acid	7647-01-0	3.65%
Extraction Solution, X123:	Acetone	67-64-1	≤ 90%

Additional components of the kit are non-hazardous or the specific chemical identity and/or exact percentage (concentration) of composition have been withheld as a trade secret.

Section 4: First-Aid Measures

Inhalation	If inhaled, remove to fresh air. Seek medical attention if any respiratory symptoms develop.
Skin Contact	Rinse with copious amounts of water and wash thoroughly with soap and water for 15 minutes. Remove contaminated clothing and shoes. If irritation or discomfort develops, seek medical attention.
Eye Contact	Rinse eyes with running water, checking for and removing contact lenses. Continue for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention.
Ingestion	If swallowed, wash out mouth with water if person is conscious. Seek medical attention.

Section 5: Fire-Fighting Measures

Extinguishing Media	Suitable: Water spray. Carbon Dioxide, dry chemical powder, or appropriate foam.
Firefighting	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fires conditions.

Section 6: Accidental Release Measures

Cleanup Procedures	Wear appropriate protective clothing. Ventilate area. Contain spill to prevent migration. Absorb on sand or vermiculite, place in sealed container for disposal. Wash area of spill with soap and water.
Waste Disposal	Dispose of in accordance with federal, state, and local regulations.

Section 7: Handling and Storage

Handling	Avoid getting components of this kit on you or in you. Do not breathe vapor. Always wear appropriate protective clothing. Always wash hands and other exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. Qualified and experienced professionals should only handle this kit.
Storage	Store according to the package insert instructions.

Section 8: Exposure Controls / Personal Protection

Engineering Controls	No special engineering controls are required when working with this kit. Use with adequate ventilation.
Protective Equipment	Safety glasses are recommended to prevent eye contact. Chemical resistant gloves and a lab coat should be worn to prevent skin contact.

<u>Characteristic</u>	<u>Stop Solution, X020 (Hydrochloric Acid, 3.65%)</u>	<u>Extraction Solution, X123 (Acetone, < 90%)</u>
Appearance	Clear, colorless liquid	Liquid
Odor	Pungent	Mint-like
Boiling Point	100°C	56°C
Melting Point	0°C	-95°C
Density	Essentially the same as water	0.79
Vapor Pressure	Essentially the same as water	N/A
Solubility in Water	Complete	Complete
pH	0.1	N/A

Section 10: Stability and Reactivity

Stability	This material is stable until the expiration date on the kit if stored as directed.
Hazardous	Hydrogen chloride gas.
Decomposition Products	Carbon monoxide. Carbon dioxide.
Incompatibilities	Materials such as cyanides, sulfides, sulfites, and formaldehyde. Strong acids. Strong bases.

Section 11: Toxicological InformationRoute of Exposure

Skin Contact	May cause skin irritation.
Skin Absorption	May be harmful if absorbed through the skin.
Eye Contact	May cause eye irritation.
Inhalation	May be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion	Harmful if swallowed.
<u>Symptoms of Exposure</u>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

No data is available.

Section 13: Disposal Considerations

Dispose of waste materials, unused components and contaminated packaging in compliance with country, state, district and local regulations. If unsure of the applicable requirements, contact the authorities for information.

Section 14: Transport InformationU.S. and Canadian Transportation: DOT

Proper Shipping Name	Chemical Kits
UN Identification Number	3316
Class and Description	9, Miscellaneous
Packing Group	II
Hazard Label	Class 9

International Air Transportation (IATA)

Proper Shipping Name	Chemical Kits
UN Identification Number	3316
Class and Description	9, Miscellaneous
Packing Group	II
Hazard Label	Class 9

Additional Transport Information:

Dangerous Goods in Excepted Quantities, Code E1 & E2.

Section 15: Regulatory InformationProduct related information

The product is not subject to classification according to the sources of literature known to us.

Observe general safety regulations when handling chemicals.

Safety Statements

Avoid release to the environment.

Risk Statements

Harmful if swallowed.

U.S. Regulatory Information

SARA Listed: No materials contained in this product are at or above threshold levels subject to SARA 302 reporting and SARA 313.

Section 16: Other Information

Disclaimer: For Research Use Only. Not for diagnostic, therapeutic, or other uses.

Further Information: The information contained in this document is accurate to the best of our knowledge and is provided in good faith. This document is intended only as a guide to the appropriate precautionary handling of the materials contained in this kit by properly trained personnel using this kit. Final determination or suitability of any materials is the sole responsibility of the user. Arbor Assays shall not be held liable for any damage resulting from use or handling of this product.