

Safety Data Sheet



Version 1
Revision Date 8/4/2026

Section 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name Bulk ATAC-seq Kit
Product number AS8101, AS16101
Recommended use This product is for research use only.

Hazardous Components

DNA Binding Buffer

Details of the supplier of the safety data sheet

Company Epigenome Technologies, Inc.
9853 Pacific Heights Blvd, Suite G&H
San Diego, CA, 92121
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Section 2: Hazard identification

Component: DNA Binding Buffer



GHS07

Hazard statements:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Signal word: Warning.

NFPA ratings (scale 0 - 4):



Health = 2
Fire = 0
Reactivity = 0

Component: Digitonin



Hazard statements:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Serious eye damage.
H373 May cause damage to organ through prolonged or repeated exposure.
H400 Short-term (acute) aquatic hazard.
H410 Long-term (chronic) aquatic hazard.

Hazards not otherwise classified: None.

Section 3: Composition and information on ingredients
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Chemical characterization: mixtures

Description: mixtures of the substance listed below with non-hazardous substances.

Dangerous components:

Kit Component: DNA Binding Buffer
Guanidinium chloride, CAS 50-01-1
< 30%

Kit Component: Digitonin
Digitonin, CAS 11024-24-1
< 3% (weight)

Section 4: First aid measures

General advice: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Inhalation: Supply fresh air; consult doctor in case of complaints.

Eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Wash eyes immediately, for at least 15 minutes, with large amounts of water, holding upper and lower lids open. Remove contact lenses, if present and it is easy to do so. Get medical attention immediately.

Skin contact: Immediately wash with water and soap and rinse thoroughly.

Ingestion: Do not induce vomiting; immediately call for medical help. Immediately call a doctor. Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Most important symptoms and effects: No further data available.

Section 5: Firefighting measures

Suitable Extinguishing Media: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

Special protective equipment for fire-fighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures:

Ensure adequate ventilation. Wear protective gloves and clean up the spill with inert absorbent material. Avoid contact of chemical with skin, eyes, or inhalation.

Environmental Precautions: Dilute with plenty of water.

Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

Waste disposal method: Dispose of in accordance with all federal, state, and local regulations.

Section 7: Handling and storage

Safe Handling: Use personal protection equipment. Avoid breathing vapors or mists. Use with local exhaust ventilation. Avoid contact with skin, eyes, or clothing. Take off contaminated clothing and wash before reuse.

Storage Conditions: Keep containers tightly closed and upright in a dry, cool, and well-ventilated place. Keep in properly labeled containers. Protect from physical damage.

Section 8: Exposure controls/personal protection

Appropriate engineering controls

Engineering controls

Showers

Eyewash stations

Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses.

Skin and body protection

Wear suitable protective clothing. Handle with gloves. Wear a lab coat to limit skin exposure.

Respiratory protection

No protective equipment is needed under normal use conditions.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties
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Information on basic physical and chemical properties

Physical state	Liquid
Color	Colorless
Odor	Odorless
Odor threshold	No data available
pH	No data available
Melting point / freezing point	No data available
Boiling point / boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Specific gravity	No data available
Water solubility	Soluble
Solubility in other solvents	No data available
Partition coefficient n-octanol/water	No data available
Viscosity	No data available
Explosive properties	Does not present an explosion hazard.
Oxidizing properties	No data available
Softening point	No data available
Molecular weight	No data available
VOC content (%)	No data available
Liquid density	No data available
Bulk density	No data available

Other information

No data available

Section 10: Stability and Reactivity

Reactivity: No information available.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No information available.

Conditions to avoid: None known.

Incompatible materials: No information available.

Hazardous decomposition products: None known.

Other decomposition products: None known.

Section 11: Toxicological information

Acute toxicity:

CAS 50-01-1 guanidinium chloride

Oral LD50 475 mg/kg (rat)

Primary irritant effect:

On skin: Irritant to skin and mucous membranes.

On eye: Irritant.

Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful, Irritant.

CAS 11024-24-1 digitonin

Oral LD50 >50 mg/kg (rat)

Carcinogenicity: Not listed by the IARC, ACGIH, NTP, or OSHA.

Germ cell mutagenicity: No information available.

Reproductive toxicity: No information available.

Target organ effects: No information available.

Inhalation: May cause damage to respiratory tract through prolonged or repeated exposure if inhaled. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

Aspiration hazard: No information available.

Symptoms related to the physical, chemical, and toxicological characteristics:
No information available.

Health warnings: The chemical, physical, and toxicological properties of this substance have not been thoroughly investigated.

Section 12: Ecological information

Ecotoxicity: No known OSHA hazards.

Persistence and degradability: No information available.

Bioaccumulation: No information available.

Mobility in soil: No information available.

PBT and vPBP assessment: No information available.

Other adverse effects: May be harmful to aquatic life with long lasting effects.

Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused products: Dispose of in accordance with federal, state, and local regulations. Dispose of waste in accordance with environmental regulation.

Contaminated packaging: Do not reuse empty containers.

Section 14: Transport information

DOT (US) / ADR (road) / ICAO/IATA (air) / IMDG (sea) / RID (rail) UN ID – Not regulated, not dangerous goods.

Section 15: Other information

For research use only.

Follow instructions for use and observe good laboratory practice and general safety precautions when using this product. Follow federal, state, local, and environmental regulations for waste disposal.

The above information is believed to be correct based on currently available knowledge. However, this information should be used only as a guide and should not be considered comprehensive. Epigenome Technologies, Inc. is not responsible for use of this information or the supplied material(s).