



SAFETY DATA SHEET

Section 1: Identification

Product Identifier: beta-Hydroxybutyrate (beta-HB) Colorimetric Assay Kit (#MAES0217)

Relevant Identified Uses of Substance or Mixture and Uses Advised Against:

Recommended Use: For Research Use Only

Uses Advised against: No information

Company:

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Section 2: Hazard(s) Identification

Hazards Identification:

According to GHS

Physical hazards: Not Hazardous

Health hazards: Not Hazardous

Environmental hazards: Not Hazardous

Section 3: Composition/ Information on Ingredients

Items	Component	Physical form	Hazardous Ingredient	Concentration	CAS No.
Reagent 1	Buffer Solution A	Odorless and pink, liquid	No hazards	-	-
Reagent 2	Enzyme Reagent	Odorless and colorless, liquid	No hazards	-	-
Reagent 3	Buffer Solution B	Odorless and colorless, liquid	No hazards	-	-
Reagent 4	Chromogenic Agent	Odorless and yellowish, liquid	No hazards	-	-
Reagent 5	100 mmol/L Standard	Odorless and colorless, liquid	No hazards	-	-

Section 4: First-Aid Measures

- Classification according to GHS

4.1 General advice

- Consult a physician. Show this safety data sheet to the doctor in attendance.

4.2 If inhaled

- If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

4.3 In case of skin contact

- Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

4.4 In case of eye contact

- Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4.5 If swallowed

- Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire-Fighting Measures

5.1 Suitable extinguishing media

- **Suitable:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide or appropriate foam.
- For small fires, use media such as "alcohol" foam, dry chemical or carbon dioxide.
- For large fires, apply water from as far as possible. Use large quantities of water applied as a mist or spray. Solid streams
- of water may be ineffective. Cool affected containers with flooding quantities of water.

5.2 Special precautions for fire-fighters

- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and
- eyes.

5.3 Special hazards arising from the substance or mixture

- Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas.

Section 6: Accidental Release Measures

6.1 Person-related safety precautions

- Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources
- of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors
- can accumulate in low areas.

6.2 Measures for environmental protection

- Prevent further leakage or spillage if safe to do so. Do not let enter drains. Discharge into the environment must be
- avoided.

6.3 Measures for containment and cleaning

- Contain spillage, and then collect with non-combustible absorbent material (eg. sand, diatomaceous earth, vermiculite).
- Place in a container for disposal according to local regulations. Pick up and arrange disposal

without creating dust. Sweep

- up and shovel. Keep in suitable, closed containers for disposal. Sweep up and shovel.

Contain spillage, and then collect

- with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local
- regulations (see section 13). Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

7.1 Handling

- Wear appropriate protective clothing and safety gloves.
- Avoid inhalation.
- Avoid contact with eyes, skin and clothing.
- Mechanical exhaust required.
- Keep away from ignition sources, heat and flame.
- No smoking at working site.
- **Incompatibilities:** Strong oxidizing agents, Strong acids. Handling and unloading should be light, to prevent packaging broken,
- damp and cause losses.
- Working place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage
- emergency treatment equipment.

7.2 Storage

- Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
- Keep away from heat, sparks and flame.
- Keep away from sources of ignition.
- **Incompatible:** Strong oxidizing agents, Strong acids.
- Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage
- emergency treatment equipment.

Section 8: Exposure Controls/Personal Protection

8.1 Engineering Controls

- Mechanical exhaust required. Safety shower and eye bath.

8.2 Personal Protective Equipment

- **Respiratory:** Government approved respirator if needed.
- **Eye/face:** Chemical safety goggles if needed.
- **Clothing:** Wear appropriate protective clothing.
- **Hand/skin:** Protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without
- touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in
- accordance with applicable laws and good laboratory practices. Wash and dry hands.
- **Body protection:** Wear suitable protective clothing according to the concentration and amount of the substance at the
- workplace.

8.3 Other Protect

- No smoking, drinking and eating at working site. Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

- **Appearance:** No data available
- **Odour:** No data available
- **Odour threshold:** No data available
- **Evaporation rate:** No data available
- **Flammability (solid, gas):** No data available
- **Upper/lower flammability or explosive limits:** No data available
- **Vapour pressure:** No data available
- **Vapour density:** No data available
- **Relative density:** No data available
- **Water solubility:** No data available
- **Partition coefficient:** No data available
- **Auto-ignition temperature:** No data available
- **Decomposition temperature:** No data available
- **Viscosity:** No data available
- **Explosive properties:** No data available
- **Oxidizing properties:** No data available

Section 10: Stability and Reactivity

10.1 Reactivity

- No data available

10.2 Chemical stability

- Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

- No data available

10.4 Conditions to avoid

- Heat, flames and sparks

10.5 Incompatible materials

- Strong oxidizing agent, Light sensitive, Alcohols, Organic materials, Heavy metals, Powdered metals, Strong reducing agents, Amines, Mercaptans.

10.6 Hazardous decomposition products

- **Other decomposition products:** No data available
- **Hazardous decomposition products formed under fire conditions:** Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides,
- Hydrogen chloride gas.

Section 11: Toxicological Information

- **Acute toxicity:**
- There is no evidence available indicating acute toxicity.

Section 12: Ecological Information

- Ecotoxicity
- No data available
- Persistence and degradability

- No data available
- Bioaccumulative potential
- No data available
- Mobility in soil
- No data available
- Results of PBT and vPvB assessment
- No data available
- Other adverse effects
- No data available

Section 13: Disposal Considerations

13.1 Disposal methods

- Dispose of waste in accordance to applicable national, regional, or local regulations. Burn in a chemical incinerator
- equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed
- disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Contaminated packaging

- Dispose in the same manner as unused product.

Section 14: Transport Information

- **RID/ADR:** Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.
- **IATA:** Non-Hazardous for Air Transport.
- **IMO:** Non-Hazardous for Sea Transport.

Section 15: Regulatory Information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 and its amendments.

Section 16: Other Information

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Last reviewed: 07/2026

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End Of MSDS