

DNA Reference Standards

1. Identification of the substance and the supplier

Product name	gDNA, cfDNA
Relevant identified uses of the substance	Laboratory chemical
Supplier details	Horizon Discovery Ltd. Building 8100 Cambridge Research Park, Waterbeach, Cambridgeshire, CB25 9TL United Kingdom Tel : +44 (0) 1223 655580 Fax: +44 (0) 1223 862240 Email: technical@horizondiscovery.com

2. Composition/information on ingredients

1. Tris-HCl	< 1% (w/w)	Cas. #77-86-1
2. EDTA	< 1% (w/w)	Cas. #60-00-4

3. Hazard identification

Substance is not classified as a hazardous substance according to Regulation (EC) No.1272/2008.

Substance is not classified as dangerous according to Directive 67/548/EEC.

In accordance with EC directives, the product does not need to be labelled.

4. First aid measures

General information

No special measures are required.

If swallowed

Wash mouth out with water provided person is conscious. Consult a physician in case of complaints.

In case of skin contact

Product does not irritate skin. Wash thoroughly with soap and water as a precaution.

In case of eye contact

Flush eyes with physiological saline or water as a precaution.

If inhaled

Move person to fresh air. Consult a physician in case of complaints.

5. Fire-fighting measures

Suitable extinguishing media

Use water spray, CO2 or dry powder.

Special hazards arising from the substance

None known.

Protective equipment

No special measures required.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
None required.

Environmental precautions

No special measures required.

Methods of containment and cleaning up

Absorb with liquid-binding material and place in a closed container for disposal. Wash spill site after material pickup is complete.

Reference to other sections

For disposal see section 13

7. Handling and storage

Precautions for safe handling

No special measures required.

Storage

Keep vial tightly closed. Store at 4°C.

Specific end use(s)

No data available.

8. Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

General precautions

The usual precautionary measures should be adhered to when handling chemicals. Wash hands thoroughly after use.

Respiratory protection

Not required.

Skin protection

Handle with chemical-resistant gloves.

Eye protection

Use chemical safety goggles.

9. Physical and chemical properties

Appearance

Physical State	Liquid
Colour	Colourless

pH 8.0

Melting point/Boiling point 0°C / 100°C

Flashpoint No data available

Explosive properties Product does not present an explosive hazard

Oxidising properties No data available

Vapour pressure No data available

Relative density No data available

Water Solubility Soluble in water

Fat Solubility No data available

9. Physical and chemical properties continued

Partition coefficient: n-octanol/water	No data available
Viscosity	No data available
Vapour density	No data available
Evaporation rate	No data available
Other information	No other relevant information is available

10. Stability and reactivity

Stability

Stable

Conditions to avoid

No data available.

Materials to avoid

Strong oxidising agents.

Hazardous decomposition products

No dangerous decomposition products known.

Possible hazardous reactions

No dangerous reactions known.

11. Toxicological information

Acute toxicity	No data available.
Corrosivity/irritation	No data available.
Respiratory/skin sensitisation	No sensitising effects known
Repeated-dose toxicity	No data available.
Mutagenicity	No data available.
Carcinogenicity	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity	No data available.
Potential health effects	
Ingestion	May be harmful if swallowed
Skin contact	No irritant effect known
Eye contact	May cause eye irritation
Inhalation	May cause respiratory tract irritation

12. Ecological information

Toxicity	No data available.
Mobility	No data available.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Other adverse effects	No data available.

13. Disposal considerations

Contact a licensed professional waste disposal service and dispose of by incineration.
Observe all federal, state and local environmental regulations.

14. Transport information

Product is non-hazardous for transport.

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Health, safety and environmental regulations/legislation specific for the substance or mixture

No data available.

Chemical Safety Assessment

No data available

16. Other information

Horizon Discovery Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. To the best of our knowledge the information in this document is correct.