SECTION 1. Product identification	
1.1. Product identifier	Product name: Nu.Q® H3R8Cit ELISA Assay - Prototype Part Number: 5001-01-05P MSDS Revision number: 1.0 MSDS Revision date: 26/02/2026
1.2. Relevant identified uses of the substance or mixture and uses advised against:	**Prototype – Not for Use in Diagnostic Procedures** For details, see insert.
1.3. Details of the suppliers of the Safety data sheet	Belgian Volition SRL Crealys Scientific Park 22 rue Phocas Lejeune 5032 Isnes Belgium
1.4. Emergency telephone number	Contact the regional poison Control Center.
SECTION 2. Hazards identification	
2.1 Classification of the substance or mixture	Classification according to regulation (EC) No 1272/2008: Some components of this kit are classified as hazardous mixtures under EC regulation. It contains a hazardous substance in concentrations equal to or exceeding the concentration limits specified in this EC Regulation. The usual precautionary measures are to be adhered to when handling chemicals. For the full text of the H-Statements mentioned in this Section, see Section 16.
2.2 Labels Elements	Labelling according to regulation (EC) No 1272/2008 **Hazard pictograms:** **Signal word** Warning **Hazard statement(s)** H290 May be corrosive to metal H317 May cause an allergic skin reaction **Precautionary statement(s)** P234 Keep only in original packaging. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face

	protection/ hearing protection. P302 + P352 IF ON SKIN: Wash with plenty of water. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin (or hair) with water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P321 Specific treatment (see section 4 of this SDS) P362 + P364 Take off contaminated clothing and wash it before reuse. P390 Absorb spillage to prevent material damage P406 Store in corrosive resistant container with a resistant inner liner. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. **Supplemental Hazard Statements:** EUH032 Contact with acids liberates very toxic gas Exemptions from labelling and packaging requirements according section 1.5.2. annex I (content of the package < 125 ml).
2.3 Other Hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Endocrine Disruptor Information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Biological hazard: Contains human-derived material and/or recombinant proteins. Handle as potentially infectious according to standard laboratory biosafety precautions. This product has been tested and is not known to contain pathogens, but universal precautions should be observed.
SECTION 3. Composition/information on ingredients	
3.1. Substances	This product is a mixture.
3.2. Mixtures	**Components** **Coated plates:** 12 strips of 8 wells coated with monoclonal anti-histone antibody against nucleosomes and provided on a carrier tray. **Substrate solution:** Ready-to-use TMB (3,3',5,5'-Tetramethylbenzidine) substrate. **Stop solution:** Hydrochloric acid 1M. **Assay buffer:** Ready-to-use Assay buffer, containing preservative CMIT/MIT. **Wash buffer:** 10X concentrated Wash buffer, containing preservative ProClin®300 and Tween 20 0.5%. **HRP labelled detection antibody**: Ready-to-use solution of Anti-nucleosome antibody conjugated with horseradish peroxidase (HRP), containing preservative CMIT/MIT. **Standard curve:** Lyophilised solutions containing increasing concentrations of recombinant nucleosome **reconstituted with SeraCon™ II Lipid Depleted Negative Diluent (contains ProClin 0.05% and sodium azide 0.045%)**

Kit Control 1 & 2: Lyophilised solutions containing two different concentrations of recombinant nucleosome to be used as a calibration control. Reconstituted with **SeraCon™ II Lipid Depleted Negative Diluent (contains ProClin 0.05% and sodium azide 0.045%)**

Biologicals

Capture and detection antibodies: Recombinant antibodies (IgG2a) purified by protein A affinity chromatography.
Recombinant nucleosome: Purified recombinant nucleosome used as a positive control.
Bovine Serum Albumin: BSA from normal bovine serum or made using a modified Cohn procedure including a heat shock method.
SeraCon™ II Lipid Depleted Negative Diluent: Used to reconstitute lyophilised standard curve and kit control; contains ProClin 0.05 % and sodium azide 0.045 %. Potential biological hazard – handle with universal precautions

Hazardous substance

- Assay buffer: Non-hazardous

Component	CAS-No	Concentration	Classification
CMIT/MIT (3:1) *	55965-84-9	<0,0014%	N/A

* CMIT/MIT = reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

- Wash buffer: Hazardous

Component	CAS-No	Concentration	Classification
CMIT/MIT (3:1)	55965-84-9	>=0.0015 - < 0.0025%	Skin Sens. 1A H317

- HRP-labelled detection antibody: Non-hazardous

Component	CAS-No	Concentration	Classification
CMIT/MIT (3:1)	55965-84-9	<15ppm	N/A

- TMB substrate: Non-hazardous

Component	CAS-No	Concentration	Classification
N/A	N/A	N/A	N/A

- Kit controls and standard curve: Hazardous

Component	CAS-No	Concentration	Classification
CMIT/MIT (3:1)	55965-84-9	<15ppm	N/A
Sodium Azyde	26628-22-8	0,045%	EUH032 Contact with acids liberates very toxic gas

- Stop solution: Hazardous

Component	CAS-No	Concentration	Classification
HCL	7647-01-0	1N	Met. Corr. 1, H290 Concentration limits: >= 0,1 %: Met. Corr. 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

Packaging material
Cardboard box

Other information
N/A

SECTION 4. First aid measures

4.1. Description of first aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled
After inhalation: fresh air. Call in physician.
In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately. Allergic skin reactions may occur. If skin irritation or rash occurs, seek medical advice.
In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call-in ophthalmologist. Remove contact lenses.
If swallowed
After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Specific treatment: Treat symptomatically (see Section 4.1).

SECTION 5. Firefighting measures

5.1. Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Hydrogen chloride gas.
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3. Advice for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. Wear appropriate protective clothing (refer to point 8).
6.2. Environment Precautions	Do not let product enter drains.
6.3. Methods and material for containment and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.
6.4. Reference to other sections	For disposal see section 13.
SECTION 7. Handling and storage	
7.1. Precautions for safe handling	Wear appropriate protective equipment (refer to point 8). Avoid breathing vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Follow good laboratory practices. For precautions see section 2.2.
7.2. Conditions for safe storage, including any incompatibilities	Store tightly closed in original packaging within temperature limits indicated on the label. Store at 2-8°C. Keep only in original packaging (do not use metal containers). Keep container tightly closed in a dry and well-ventilated place. Do not heat or freeze components.
7.3. Specific end use(s)	No further relevant information available.
SECTION 8. Exposure controls and personal protection	
8.1. Control parameters	The product does not contain any relevant quantities of materials with critical values that have to be monitored in the workplace.
8.2. Exposure controls	
8.2.1.Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice as well as Good laboratory practices (GLP). Keep containers tightly closed after use. Protect from physical damage. Avoid direct contact with content of the container and prevent or reduce uncontrolled release to the environment. Take care not to splash liquids. Do not breathe dust/fume/gas/mist/vapours/spray. Wear suitable protective clothing and remember to remove the safety clothing when leaving the working place. Do not eat or drink while handling the product. Do not pipette reagents by mouth. Wash hands before breaks and at the end of workday.
8.2.2. Personal protective equipment	Wear a suitable laboratory coat or protective garment according to the task being performed and the risks involved. Change contaminated clothing immediately. **Eye/face protection:** Safety goggles. Use equipment for eye protection tested and approved under appropriate government standards. **Skin protection:** Handle with gloves. Chemical resistant gloves (e.g. nitrile) are recommended. 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:** Laboratory coat.

	Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
8.2.3. Environmental exposure controls	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided (see sections 6 and 7).
SECTION 9. Physical and chemical properties	
9.1. Information on basic physical and chemical properties	Appearance: Assay reagents→ Liquid Standard and controls → Freeze dried Odour: Odorless pH: No data available Melting point/freezing point: No data available Initial boiling point and boiling range: No data available Flash point: 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: Not determined for mixture. Vapour density: No data available Relative density: No data available Solubility: Buffer easy to solute in water Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: Kinematic: no data available; Dynamic: 2,3 mPa.s at 15 °C Explosive properties: No data available Oxidizing properties : No data available
9.2. Other safety information	No
SECTION 10. Stability and reactivity	
10.1. Reactivity	The product is stable in accordance with the recommended storage conditions.
10.2. Chemical stability	All the chemicals in the test kits are stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	No data available.
10.4. Conditions to avoid	The temperature out of 2-8°C.
10.5. Incompatible materials	Bases, Amines, Alkali metals, Metals, Permanganates (for example Potassium Permanganate), Fluorine, Metal Acetylides, Hexalithium Disilicide.
10.6. Hazardous decomposition products	No dangerous decomposition products known. In the event of fire: see section 5.
SECTION 11. Toxicological information	
Acute toxicity:	Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. Symptoms: mucosal irritations, Cough, Shortness of breath. Possible damages: damage of the respiratory tract. Dermal: No data available.
Irritation:	May cause burns. Mixture causes skin and eye irritation.
Corrosivity:	Corrosive to eyes and skin; with greater exposures may cause eye injury. Hazardous if swallowed.

Sensitisation:	May cause an allergic skin reaction.
Repeated dose toxicity:	No data available.
Carcinogenicity:	No carcinogenic materials are contained within this product.
Mutagenicity:	No data available.
Toxicity for reproduction:	No data available.
Information on other hazards:	Endocrine disrupting properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
SECTION 12. Ecological information	
12.1. Toxicity	No data available.
12.2. Persistence and degradability	The methods for determining biodegradability are not applicable to inorganic substances.
12.3. Bioaccumulative potential	No data available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6. Other adverse effects	Endocrine disrupting properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Other information: No data available.
SECTION 13. Disposal considerations	
13.1. Waste treatment methods	Every waste disposal must be in compliance with national and local regulations. - Collect samples in plastic bag and submit to sterilization procedures. - Rinse carefully polluted bench. - Contact a licensed professional waste disposal service to dispose of this material. Observe all federal state and regulations. Emptied bottles and vials may retain product residues: handle as if they were full.
SECTION 14. Transport information	
14.1. UN number	ADR/RID : - IMDG : - IATA : -
14.2. UN proper shipping name	ADR/RID : - IMDG : - IATA : -
14.3. Transport hazard classe(es)	ADR/RID : - IMDG : - IATA : -
14.4. Packaging group	ADR/RID : - IMDG : - IATA : -
14.5. Environmental hazards	ADR/RID : - IMDG Marine pollutant : - IATA : -
14.6. Special precautions for user	See sections 6-8.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
15.2. Chemical safety assessment	For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H290 May be corrosive to metals.

H317 May cause an allergic skin reaction

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Belgian Volition shall not be held liable for any damage resulting from handling or from contact with the above product.