

Product range: Assay Genie ELISA Kits (GXEL series) | SDS no.: GXEL_MSDS | Revision: 1.0 | Revision date: 09 July 2026

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

Product identifier	Assay Genie ELISA Kit (product/SKU code in the format GXEL#####). This SDS applies to all kits in the ELISA (GXEL) range.
Product form	Mixture – multi-component in vitro assay kit (pre-coated microplate, lyophilised standard, antibody conjugates, buffers, TMB substrate, stop solution).
Relevant identified uses	Laboratory reagent for research use only (RUO). Not for use in diagnostic or therapeutic procedures, or for human or veterinary use.
Uses advised against	Any use other than the identified research use.
Supplier	Assay Genie Ltd www.assaygenie.com Technical support: techsupport@assaygenie.com Sales: sales@assaygenie.com
Registered address	Assay Genie Ltd, 25 Windsor Place, Dublin 2, D02 VY42, Ireland
Emergency telephone	+353 1 563 9720 (Monday–Friday, 08:00–18:00 GMT). This is not a 24-hour emergency line; for medical emergencies contact your local poison centre or emergency services.

SECTION 2: Hazards identification

Classification (CLP/GHS)	Based on available information, the kit as supplied is not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP) or the UN GHS. Individual reagents are supplied in small quantities at low concentrations.
Label elements	No signal word, hazard pictogram or hazard statement is required for the kit as supplied.
Other hazards	The stop solution may be mildly acidic and buffers may contain a preservative; avoid contact with skin and eyes. No PBT/vPvB components are known. Not a physical or environmental hazard in the quantities supplied.

SECTION 3: Composition / information on ingredients

The kit is a mixture of buffered protein and reagent solutions. No component is present at a concentration that requires classification or disclosure under CLP/GHS. Preservatives, where present, are included at $\leq 0.1\%$. Component summary:

Pre-coated microplate	Antibody-coated polystyrene plate	None
Lyophilised standard	Recombinant protein / analyte	None
Detection antibody / SABC	Buffered protein conjugate	None
TMB substrate	3,3',5,5'-tetramethylbenzidine solution	Avoid skin/eye contact
Stop solution	Dilute acid solution	May cause mild irritation
Wash / dilution buffers	Buffered saline, may contain $\leq 0.1\%$ preservative	None at supplied conc.

SECTION 4: First-aid measures

Inhalation	Not an expected route of exposure. Move to fresh air if aerosols are inhaled and symptoms occur.
Skin contact	Wash affected area with soap and water. If irritation persists, seek medical advice.
Eye contact	Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do. If irritation persists, seek medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting. Seek medical advice if a large amount is swallowed.
Most important symptoms	No specific symptoms expected. Mild transient irritation possible on contact with the stop solution or substrate.

SECTION 5: Firefighting measures

Suitable extinguishing media	Water spray, foam, dry chemical or carbon dioxide, as appropriate to the surrounding fire.
Special hazards	The product is not flammable. No hazardous decomposition products expected under normal use.
Advice for firefighters	Wear self-contained breathing apparatus and full protective clothing where required by the surrounding fire.

SECTION 6: Accidental release measures

Personal precautions	Wear gloves and eye protection. Avoid contact with skin and eyes.
Environmental precautions	Do not allow large quantities to enter drains or watercourses.
Methods for containment / cleaning	Absorb spillage with inert material, place in a suitable container and dispose of in accordance with local regulations. Wipe the area with water.

SECTION 7: Handling and storage

Precautions for safe handling	Handle in accordance with good laboratory practice. Wear appropriate PPE. Do not eat, drink or smoke when using the product. Wash hands after use.
Storage	Store at 2–8°C (see kit datasheet for component-specific storage; some components may require –20°C). Keep containers tightly closed. Protect light-sensitive reagents from light.
Shelf life	Use within the expiry date stated on the kit label.

SECTION 8: Exposure controls / personal protection

Occupational exposure limits	None established for the kit or its components at supplied concentrations.
Engineering controls	Normal laboratory ventilation is sufficient.
Personal protective equipment	Nitrile or latex gloves, laboratory coat and safety glasses. Use eye protection when handling the stop solution and substrate.

SECTION 9: Physical and chemical properties

Appearance	Clear to coloured aqueous solutions and a lyophilised solid (standard); solid microplate.
Odour	Odourless or faint.
pH	Buffers approximately neutral; stop solution acidic (approx. pH < 2).
Solubility	Aqueous components are miscible with water.
Flammability	Non-flammable (aqueous).
Other properties	Boiling/melting point, flash point and vapour pressure: not determined / not applicable to aqueous reagent mixtures.

SECTION 10: Stability and reactivity

Reactivity / stability	Stable under recommended storage and handling conditions.
Conditions to avoid	Elevated temperatures, freeze-thaw cycling of ready-to-use reagents, direct light for light-sensitive components.
Incompatible materials	Strong oxidising agents; strong bases (with the acidic stop solution).
Hazardous decomposition products	None known under normal conditions of use.

SECTION 11: Toxicological information

Acute toxicity	No toxicological data available for the mixture. Not expected to be acutely toxic at the quantities and concentrations supplied.
Skin / eye	The stop solution and substrate may cause mild, transient irritation on direct contact.
Sensitisation / CMR	No component is known to be a sensitiser, carcinogen, mutagen or reproductive toxicant at supplied concentrations.

SECTION 12: Ecological information

Ecotoxicity	No data available. No significant environmental effects expected from the small quantities supplied.
Persistence / bioaccumulation / mobility	Not determined.
PBT / vPvB	The mixture contains no components assessed as PBT or vPvB.

SECTION 13: Disposal considerations

Waste treatment	Dispose of contents and container in accordance with local, regional and national regulations. Neutralise acidic stop solution before disposal where required. Where samples of human or animal origin have been applied, treat plates and consumables as potentially infectious biological waste.
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SECTION 14: Transport information

ADR / RID / IMDG / IATA	Not classified as dangerous goods for transport. No UN number assigned.
Special precautions	None. Ship with cold packs where required to maintain 2–8°C.

SECTION 15: Regulatory information

EU regulations	This SDS has been prepared in accordance with Regulation (EC) No 1907/2006 (REACH) Annex II, as amended, and Regulation (EC) No 1272/2008 (CLP).
Chemical safety assessment	No chemical safety assessment has been carried out for this mixture.
Product status	For Research Use Only (RUO).

SECTION 16: Other information

Revision	Version 1.0, 09 July 2026. First issue.
Prepared by	Assay Genie (draft prepared for QA/EHS review).
Disclaimer	The information above relates only to the specific product range and does not constitute a warranty of any kind. It is provided in good faith and is believed to be correct as of the revision date. It is the user's responsibility to ensure safe conditions of use and to comply with applicable laws.