

LEADING LIFE TECHNOLOGIES

GENERAL SAFETY DATA SHEET

ResiQuant® E. coli HCP ELISA Kit-Plasmid

Document number	SDS-CRH00-304x-GEN-001
Version	1.0
Preparation date	August 20, 2026
Product form	Multi-reagent laboratory ELISA kit
Intended audience	Laboratory, manufacturing, and quality-control users

IMPORTANT - GENERAL TEMPLATE

This document is a general SDS content model adapted from the supplied Leading Life Technologies FBS SDS and the supplied product MSDS. It is not a manufacturer-issued, lot-specific regulatory determination. Leading Life Technologies must validate the exact kit configuration, reagent formulations, concentrations, jurisdiction, supplier information, and all applicable requirements before release or operational use.

For research and manufacturing use only. Not intended for diagnostic or therapeutic use. Kit components may include preserved reagents and a hydrochloric-acid stop solution. Consult the product label and reagent-specific SDS before use.

SECTION 1 - IDENTIFICATION

Product identifier	ResiQuant® E. coli HCP ELISA Kit-Plasmid
Catalog numbers	CRH00-3041S; CRH00-3041; CRH00-3042
Recommended use	Quantitative detection of residual E. coli host cell proteins in plasmid process and product samples.
Restrictions on use	Research and manufacturing use only; not for diagnostic or therapeutic use.
Responsible party	Leading Life Technologies
Emergency telephone	650-996-6078

SECTION 2 - HAZARD(S) IDENTIFICATION

The kit is a multi-component product. Classification and labeling must be based on the individual supplied reagent and the final commercial configuration. The supplied source MSDS identifies sensitizing preservative and corrosive acid hazards for certain components.

GHS / OSHA classification	Component dependent. ProClin® 300 preservative: Skin Sensitization Category 1 (H317). Hydrochloric-acid stop solution: corrosive/serious eye damage hazard; source MSDS lists H318 and H290 and instructs users regarding severe burns and eye damage.
Signal word	Warning or Danger, component dependent. Confirm current reagent labels before use.
Hazard statements	May cause an allergic skin reaction. Stop solution may cause severe skin burns and eye damage and may be corrosive to metals.
Precautionary statements	Avoid breathing mist or aerosols. Wear protective gloves, protective clothing, and eye/face protection. Wash thoroughly after handling. Keep acid-containing reagent in compatible, closed containers.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

ProClin® 300 preservative	CAS 55965-84-9; source MSDS: 0.1% preservative (≤0.005% active ingredient); Skin Sensitization Category 1, H317.
Hydrochloric acid	CAS 7647-01-0; source MSDS: 10% in acid stop-solution component; corrosive / serious eye damage hazard. Confirm final concentration and classification.
Other components	Microplate, standards, assay diluent, wash-buffer concentrate, HRP-antibody, substrate solution, and other proprietary kit reagents. Not all identities/concentrations are available in this general template.

SECTION 4 - FIRST-AID MEASURES

Eye contact	Immediately rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing and obtain immediate medical attention for acid-containing reagent exposure or persistent symptoms.
Skin contact	Remove contaminated clothing. Rinse skin with plenty of water or shower. Seek medical attention for burns, irritation, or allergic rash.
Inhalation	Move to fresh air. Keep comfortable for breathing. Obtain medical attention for breathing difficulty or persistent symptoms.
Ingestion	Rinse mouth. Do not induce vomiting. If acid-containing reagent was swallowed, call a poison center or physician immediately. Do not give anything by mouth to an unconscious person.
Most important symptoms	Skin sensitization or rash; eye irritation or severe eye damage; skin burns from acid component.
Medical attention	Treat symptomatically. Provide product label, reagent identity, and exposure details to medical personnel.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray, foam, carbon dioxide, or dry chemical suitable for the surrounding fire.
Specific hazards	Reagents are generally aqueous and not expected to be readily flammable. Heating may generate irritating fumes. Acid-containing components may react with incompatible materials.
Protective equipment	Firefighters should wear self-contained breathing apparatus and full protective clothing as conditions warrant.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Restrict access, provide adequate ventilation, and avoid breathing mist or aerosols.
- Wear gloves, protective clothing, and eye/face protection. For acid-containing spill response, use acid-resistant PPE and consult institutional procedures.
- Cover drains. Absorb compatible liquid with inert absorbent, collect in a closed labeled container, and clean the affected area.
- Do not mix cleanup materials with incompatible chemicals. Prevent uncontrolled release to drains, soil, or water.

SECTION 7 - HANDLING AND STORAGE

- Use trained personnel and follow the current user manual and laboratory chemical hygiene plan. Do not eat, drink, smoke, or mouth-pipette in handling areas.
- Avoid splashes, contact with eyes/skin, and aerosol generation. Keep reagent containers closed and clearly labeled.
- Store kit components at 2-8°C unless otherwise specified. Protect substrate solution from light. Do not freeze unless directed by the label.
- Store acid stop solution in compatible corrosion-resistant secondary containment and segregate from incompatible materials.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational limits	No kit-specific occupational exposure limits established in this general template. Observe applicable limits for hydrochloric acid where relevant.
Engineering controls	General laboratory ventilation is normally adequate. Use local exhaust or containment where aerosols or acid mists could be generated. Provide eyewash and safety shower access.
Eye / face protection	Safety glasses with side shields; splash goggles and face shield for acid stop-solution handling or splash risk.
Skin protection	Nitrile or other compatible gloves and laboratory coat. Change contaminated gloves/clothing promptly.
Respiratory protection	Not normally required for routine closed handling. If aerosols or mists cannot be controlled, use a site-specific respiratory-protection program.
Hygiene measures	Wash hands and exposed skin after handling. Wash contaminated clothing before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Multiple liquid reagent components; color and odor vary by reagent.
pH	Not available for the complete kit. Acid stop solution is acidic.
Flash point / flammability	Not expected to be flammable; data not available for each component.
Solubility	Most liquid components are expected to be water compatible.
Other properties	No comprehensive physicochemical data available for the complete kit. Use current component documentation.

SECTION 10 - STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions.
Conditions to avoid	Extreme temperatures, direct sunlight where prohibited, contamination, and uncontrolled mixing of components.
Incompatible materials	Strong bases, reactive metals, oxidizers, and other materials incompatible with hydrochloric acid; verify component-specific compatibility.
Hazardous decomposition	No specific data available; thermal decomposition may produce irritating or corrosive fumes.

SECTION 11 - TOXICOLOGICAL INFORMATION

The complete kit has not been evaluated as a single mixture. Source information identifies potential skin sensitization from preservative-containing components and severe eye/skin hazard from acid stop solution. Avoid exposure. Acute toxicity, carcinogenicity, reproductive toxicity, mutagenicity, repeated-dose toxicity, aspiration hazard, and ecotoxicological endpoints are not fully established for the complete kit.

SECTION 12 - ECOLOGICAL INFORMATION

No complete-kit ecological data are available. Avoid release to the environment. An environmental hazard cannot be excluded following improper handling or disposal. Dispose according to applicable local, state, and federal requirements.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Dispose of unused reagents, contaminated absorbents, microplates, and containers in accordance with institutional and applicable regulations.
- Do not discharge acid-containing or preservative-containing reagents to drains without authorization and compatibility review.
- Use a licensed waste contractor where required; retain kit and lot identification for disposal records.

SECTION 14 - TRANSPORT INFORMATION

U.S. DOT / IMDG / IATA

General kit configuration not expected to be regulated as dangerous goods based on supplied source MSDS; confirm the actual shipped configuration and any dry ice requirements.

UN number / shipping name

Not assigned for general kit template. Component- and shipment-specific assessment required.

Special precautions

Protect from damage and temperature excursion. Dry ice, if used, is a separate dangerous good (UN 1845, Class 9) and must be packaged, marked, labeled, documented, and vented as required.

SECTION 15 - REGULATORY INFORMATION

General template only. Determine OSHA Hazard Communication classification, U.S. state requirements, California Proposition 65 status, SARA reporting, TSCA inventory status, EU CLP/REACH status, and other jurisdictional obligations for the released product and components. Source MSDS states that no candidate substance of very high concern is present at $\geq 0.1\%$, but this must be reconfirmed for the final product.

SECTION 16 - OTHER INFORMATION

This SDS is prepared as a general informational model from supplied reference documents. It does not replace a manufacturer-issued, lot-specific SDS or current reagent-specific label. The information is believed to be accurate for general guidance but does not constitute an express or implied warranty. Users remain responsible for determining suitability, training personnel, and complying with all applicable laws and procedures.

Revision note: Initial general LLT template adaptation for ResiQuant® E. coli HCP ELISA Kit-Plasmid.