



MATERIAL SAFETY DATA SHEET

1. PRODUCT INFORMATION

Product Name: Human IL-12 ELISpot Kit
Catalog Number: SL10032E
Product Use: For Research Use Only. Not for Diagnostic Use.
MSDS Number: MSDSSL10032E
Revision Date: July 27, 2006
Revision Number: 0
Manufacturer: Yes Biotech Laboratories Ltd. (Anogen)
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Mississauga, ON
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Emergency Number: CHEMTREC: 1-800-424-9300 (Canada or US)

2. HAZARDOUS INGREDIENTS

BCIP/NBT SUBSTRATE SOLUTION

3. PHYSICAL DATA

BCIP/NBT Substrate Solution

Physical State: Liquid
Appearance: Clear, Yellowish
Melting or Freezing Point: < 0°C (water)
Boiling Point: 100°C (water)
Solubility in Water: Dilutable

4. FIRE AND EXPLOSION HAZARD

Conditions of Flammability May be combustible at high temperature.

Extinguishing Media Small fire: Use DRY chemical powder
Large Fire: Use water spray, fog or foam. Do not use water jet.

Flash Point/Method Not available.

Hazardous Combustion Products Carbon Oxides (CO, CO₂), Nitrogen Oxides (NO, NO₂)



5. REACTIVITY DATA

BCIP/NBT Substrate Solution
Conditions of Instability

Normally stable

6. TOXICOLOGICAL PROPERTIES/ HEALTH HAZARD DATA

Hazardous Decomposition Products Carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂)

Hazardous Polymerization Non-reactive with metals, acids.
Will not occur.

Incompatibilities Reactive with oxidizing agents. Slightly reactive to reactive with alkalis.

7. FIRST AID MEASURES

Skin: Flush the contact area with lukewarm running water for at least 15 minutes. Remove contaminated clothing, taking care not to spread the chemical. If contamination is extensive, remove clothing under running water. Discard or decontaminate clothing under running water. Discard or decontaminate clothing before use. Unless contact has been slight, seek medical attention. Seek medical attention if irritation persists.

Eye: Flush the contaminated eye(s) for at least 15 minutes with lukewarm running water, holding the eyelids open. Take care not to rinse contaminated water in to the non-affected eye. Always seek medical attention for accidents involving the eyes.

Inhalation: Take proper precautions to ensure your own safety before attempting rescue. Remove source of contamination or move victim to fresh air. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Ingestion: Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water to dilute. Have victim drink 200-400 mL of water to dilute. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.



8. PREVENTIVE MEASURES

Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work station location.
Personal protective equipment:	
- Gloves	Impervious Gloves
- Respiratory Protection	Dust respirator
- Eye Protection	Safety goggles
- Clothing:	Lab coat
Storage Requirements:	2-10°C
Handling Procedures and Equipment:	Keep away from heat, sparks and flame. Do not ingest. Do not breathe gas/ fumes/ vapour/ spray. Do not get in eyes, on skin or on clothing.
Leak or Spill Clean-Up:	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Cover with DRY each, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapours. Prevent entry into sewers, basements or confined areas.
Disposal:	Follow all federal, provincial and local regulations for disposal. Use only licensed disposal and waste hauling companies. Disposal of small amounts of spilled material may be handled as described under "Leak or Spill Clean-up". Large spills must be dealt with separately and handled by qualified disposal companies.

9. PREPARATION INFORMATION

Prepared by: Technical Services Department
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Date of Preparation: July 27, 2006

The above information is believed to be correct, does not purport to be all-inclusive, and shall be used only as a guide. Yes Biotech Laboratories Ltd. shall not be liable for any damages resulting from handling or from contact with the above product.