SAFETY DATA SHEET

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

1.1 Product Identifier

Product Name(s) : ELISpot Human IFN-γ Kit, uncoated 96-well plate – 1 plate (2191-01)
ELISpot Human IFN-γ Kit, uncoated 96-well plate – 5 plates (2191-05)
ELISpot Human IFN-γ, 12×8 well strip, uncoated - 1 plate (2391-01)
ELISpot Human IFN-γ, 12×8 well strip, uncoated - 5 plates (2391-05)
ELISpot Human IL-1β Kit, uncoated 96-well plate – 1 plate (2104-01)
ELISpot Human IL-1β Kit, uncoated 96-well plate – 5 plates (2104-05)
ELISpot Human IL-1β, 12×8 well strip, uncoated - 1 plate (2304-01)
ELISpot Human IL-1β, 12×8 well strip, uncoated - 5 plates (2304-05)
ELISpot Human TNF-α Kit, uncoated 96-well plate – 1 plate (2148-01)
ELISpot Human TNF-α Kit, uncoated 96-well plate – 5 plates (2148-05)
ELISpot Human TNF-α, 12×8 well strip, uncoated - 1 plate (2348-01)
ELISpot Human TNF-α, 12×8 well strip, uncoated - 5 plates (2348-05)
ELISpot Human IL-8 Kit, uncoated 96-well plate – 1 plate (2126-01)
ELISpot Human IL-8 Kit, uncoated 96-well plate – 5 plates (2126-05)
ELISpot Human IL-8, 12×8 well strip, uncoated - 1 plate (2326-01)
ELISpot Human IL-8, 12×8 well strip, uncoated - 5 plates (2326-05)
ELISpot Human IL-2 Kit, uncoated 96-well plate – 1 plate (2153-01)
ELISpot Human IL-2 Kit, uncoated 96-well plate – 5 plates (2153-05)
ELISpot Human IL-2, 12×8 well strip, uncoated - 1 plate (2353-01)
ELISpot Human IL-2, 12×8 well strip, uncoated - 5 plates (2353-05)
ELISpot Human IL-6 Kit, uncoated 96-well plate – 1 plate (2157-01)
ELISpot Human IL-6 Kit, uncoated 96-well plate – 5 plates (2157-05)
ELISpot Human IL-6, 12×8 well strip, uncoated - 1 plate (2357-01)
ELISpot Human IL-6, 12×8 well strip, uncoated - 5 plates (2357-05)

Catalog Number(s) : **2191-01, 2191-05, 2391-01, 2391-05**
2104-01, 2104-05, 2304-01, 2304-05
2148-01, 2148-05, 2348-01, 2348-05
2126-01, 2126-05, 2326-01, 2326-05
2153-01, 2153-05, 2353-01, 2353-05
2157-01, 2157-05, 2357-01, 2357-05

SDS # : 104

Product Description : Human Enzyme-Linked ImmunoSpot (ELISpot) Assay

Product Category : ELISpot – ALP

Components : 96-well filter plate or 12x8 well strip plate
Recombinant capture antibody (liquid containing ProClin® 300)
Biotinylated recombinant detection antibody (liquid containing ProClin® 300)
Streptavidin-ALP (Alkaline Phosphatase) enzyme conjugate (liquid containing ≤0.1% sodium azide)
BCIP/NBT Ready-to-use substrate solution
Bovine Serum Albumin (BSA) blocking agent

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, for research use only
Uses advised against	:	N/A

1.3 Details of the supplier of the safety data sheet

Company	:	Virax Biolabs UK Operating Limited BioCity Glasgow, Bo'Ness Road, Newhouse, Lanarkshire ML1 5UH United Kingdom
Telephone	:	+44 (0)1698 678451
E-mail	:	support@viraxbiolabs.com
Emergency contact	:	Call the emergency number in your country

SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

2.1 Classification of the substance or mixture

GHS-UK classification (GB CLP Regulation)	:	Not classified. This product is not classified as hazardous at this concentration.
Uses advised against	:	N/A

2.2 Label elements

Hazard pictogram	:	N/A
Signal word	:	N/A
Precautionary statements	:	N/A

SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

3.1 Description of the mixture

ProClin® 300 is a modified alkyl carboxylate solution that contains a mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)

BCIP/NBT Ready-to-use substrate solution that contains trometamol.

Bovine Serum Albumin (BSA) crystal powder. No components need to be disclosed according to the applicable regulations.

3.2 Hazardous ingredients

Substance	CAS No.	EC No.	Conc.	Classification according to the GB CLP Regulations
ProClin® 300	55965-84-9	613-167-00-5	<0.05%	Not hazardous at this concentration.
trometamol	77-86-1	201-064-4	>=1 - <5	Not hazardous at this concentration.
Bovine Serum Albumin (BSA)	9048-46-8	232-936-2	100%	Not hazardous

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

General Advice : Consult a doctor and show this safety data sheet.

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Specific treatments : No specific treatment.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 General Information

Not flammable or combustible.

5.2 Extinguishing media

Suitable extinguishing media	:	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	:	None known.

5.3 Specific hazards arising from the substance or mixture

Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	:	Only for the BCIP/NBT Ready-to-use substrate solution – decomposition products may include the following materials: carbon dioxide – carbon monoxide – nitrogen oxides Not determined for other components
Explosion Data	:	None known

5.4 Advice for firefighters:

Hazards from the substance or mixture	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Protection during firefighting	:	Firefighters should wear full protective gear

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For Non-Emergency Personnel	:	No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Ensure adequate ventilation. Avoid breathing vapours, mist, dust or gas.
For Emergency Responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions:

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up:

No special measures required. Cover spillage with suitable absorbent material. Hold all material for appropriate

disposal as described under section 13 of SDS.

6.4 Reference to other sections
No additional information available

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling:
Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities
Store according to product specifications. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1 Control parameters:

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls:

Appropriate Engineering Controls
Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with an eye wash station.

8.3 PERSONAL PROTECTIVE EQUIPMENT:

Hand protection	:	Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.
Eye / Face Protection	:	Use appropriate safety glasses.
Body Protection	:	Wear appropriate protective clothing.
Respiratory Protection	:	If risk assessment indicates necessary, use a suitable respirator.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	:	All reagents are in Liquid form except BSA. It is in a crystal powder form
Odor	:	Minimal odour
Odor Threshold	:	Not determined
pH	:	Not determined
Melting Point/Freezing Point	:	Not determined
Boiling point/range	:	Not determined

Flash point	:	Not determined
Evaporation rate	:	Not determined
Flammability (solid, gas)	:	Not determined
Upper/Lower flammability limit in air	:	Not determined
Vapour pressure	:	Not determined
Vapour density	:	Not determined
Relative density	:	Not determined
Water solubility	:	Not determined
Solubility in other solvents	:	Not determined
Auto-ignition temperature	:	Not determined
Decomposition temperature	:	Not determined
Viscosity, kinematic	:	Not determined
Explosive properties	:	Not determined

9.2 Other Information
No additional information available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity:
The product is stable at normal handling and storage conditions.

10.2 Chemical stability:
The product is stable at normal handling and storage conditions.

10.3 Possibility of hazardous reactions:
Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to avoid:
Heat.

10.5 Incompatible materials:
Strong acids/alkalis, strong oxidizing/reducing agents.

10.6 Hazardous decomposition products:
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity	:	Not determined.
Skin corrosion/irritation	:	Not determined.
Eye damage/irritation	:	Not determined.
Sensitization to the respiratory tract/skin	:	Not determined.
Carcinogenicity	:	Not determined.
Reproductive toxicity	:	Not determined.
Specific Target Organ Toxicity - Single Exposure	:	Not determined.
Specific Target Organ Toxicity - Repeated Exposure	:	Not determined
Aspiration Hazard	:	Not determined

11.2 Information on toxicological effects:

Not applicable.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Summary**:**

Toxicity	:	No data available
Persistence and degradability	:	No data available
Bio accumulative potential	:	No data available
Mobility in soil	:	No data available
Results of PBT and vPvB assessment	:	No data available
Other adverse effects	:	No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	:	Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.
Contaminated	:	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes

Packaging		in accordance with national, regional, or local legislation.
Packaging	:	Empty container is not considered as hazardous waste

SECTION 14 - TRANSPORT INFORMATION

Transport hazard classes	:	Does not meet the criteria for classification as hazardous for transport.
Packaging group	:	Does not meet the criteria for classification as hazardous for transport.
Environmental hazards	:	Does not meet the criteria for classification as hazardous for transport.
ADR	:	Does not meet the criteria for classification as hazardous for transport.
IATA	:	Does not meet the criteria for classification as hazardous for transport.
DOT	:	Does not meet the criteria for classification as hazardous for transport.
Special precautions for users	:	Does not meet the criteria for classification as hazardous for transport.
Additional Transport Information	:	Does not meet the criteria for classification as hazardous for transport.

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No information available.

15.2 Chemical safety assessment

No information available.

SECTION 16 - OTHER INFORMATION

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities.

The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of safety data sheet.