

## Safety Data Sheet

### Kit summary

Following components used as mixtures in the kit are defined as hazardous chemical according to the Regulation (EC) N° 1272/2008.

Component	EC-No	CAS-No	% weight	Classification (pure ingredient)	Hazard Statements
Proclin 300	-	55965-84-9	0.1%	GHS06 GHS05 GHS09	H302 Cat 4 H311 Cat 3 H314 Cat 1B H317 Cat 1 H331 Cat 3 H400 Cat 1 H410 Cat 1
FITC	222-042-0	3326-32-7	< 5%	GHS08	H317 Cat 1 H334 Cat 1
AEC	205-057-7	132-32-1	2%	GHS07 GHS08	H302 Cat 4 H350 Cat 1B
BCIP/NBT	229-506-1 206-067-4	6578-06-9 298-83-9	< 5%	GHS07 GHS08	H315 Cat 2 H319 Cat 2 H335 Cat 3 H302 Cat 4 H370 Cat 1

Other chemicals contained within these products do not meet definition of a hazardous chemical according to the Regulation (EC) N° 1272/2008.

### Section 1 – Identification

Product Identification: **Dual ELISpot Set**

Product Code: **Cat- n° 874.xx0.xxx**

Product Application: **For Research Use Only**

Manufacturer:

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### Section 2 – Hazard Identification

#### 2.1 Classification

This product is not classified according to the CLP regulation

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

### Section 3 –Composition / Information on Ingredients

Component	Contains	CAS Number	EC Number	Classification (pure ingredient)	Hazard Statements	%
Capture Antibodies	-	-	-	NA	-	-
Biotinylated detection Antibody	-	-	-	NA	-	-
FITC-conjugated detection Antibody	FITC	3326-32-7	222-042-0	GHS08	H317 Cat 1 H334 Cat 1	-
Streptavidin- AP	-	-	-	NA	-	-
Anti FITC antibody HRP-conjugate	Proclin 300	55965-84-9	-	GHS06 GHS05 GHS09	H302 Cat 4 H311 Cat 3 H314 Cat 1B H317 Cat 1 H331 Cat 3 H400 Cat 1 H410 Cat 1	0.1%
BSA	-	-	-	NA	-	-
Blocking reagent	-	-	-	NA	-	-
50X concentrated AEC Substrate Buffer	AEC 3-Amino-9-ethylcarbazole	132-32-1	205-057-7	GHS07 GHS08	H302 Cat 4 H350 Cat 1B	2%
10X concentrated dilution buffer for AEC	-	-	-	NA	-	-
Ready to use BCIP/NBT substrate buffer	- 5-Bromo-4-chloro-3-indoxyl phosphate - Nitro Blue Tetrazolium chloride	6578-06-9 298-83-9	229-506- 206-067-4	GHS07 GHS08	H315 Cat 2 H319 Cat 2 H335 Cat 3 H302 Cat 4 H370 Cat 1	< 5%

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

BSA Bovine Serum Albumin from a certified BSE (Bovine Spongiform Encephalopathy)-free source is comprised in the kit.

#### Additional information

The data and advice relate to the concentrations not of the lyophilized powder, but of the prepared solution.

### Section 4 - First Aid Measures

**General information:** Consult a doctor if necessary and provide this SDS.

**After inhalation:** Supply fresh air; consult a doctor in case of complaints.

**After skin contact:** Remove contaminated clothing and shoes; rinse with plenty of water and soap and consult a doctor.

**After eye contact:** Rinse opened eye for at least 15 minutes under running water and consult a doctor.

**After ingestion:** Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

**Most important symptoms or effects:** No available data.

## Section 5 – Fire Fighting Measures

**Suitable extinguishing agents:** Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

**Specific hazards due to combustion products:** Emits toxic fumes, carbon oxides, nitrous oxides (NO<sub>x</sub>), sulphur oxides. Do not breathe fumes.

**Protective equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## Section 6 – Accidental Release Measures

**Person-related safety precautions:** Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

**Measures for environmental protections:** Do not allow to enter sewers / surface or ground water.

**Measures for cleaning / collecting:** Absorb on sand or vermiculite and place in a closed containers for waste disposal. Avoid splashing.

## Section 7 – Handling and storage

### 7.1 Handling

**Information for safe handling:** Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Use with adequate ventilation.

**Information about fire - and explosion protection:** Keep away from sources of ignition. No smoking.

### 7.2 Storage

**Requirement to be met by storerooms and receptacles:** Store in a cool, dry, well ventilated area away from incompatible substances. Keep away from metal.

Light sensitive (FITC).

**Storage class:** Store product and all components at 2-8°C.

## Section 8 – Exposure Controls / Personal Protection

### 8.1 Control of exposition

The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

### 8.2 Personal protective equipment

**General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Wear respiratory protection or use in a chemical hood.

**Protection of hands:** Compatible chemical resistant gloves.

**Eye Protection:** Goggles recommended during refilling.

## Section 9 - Physical and Chemical Properties

### Form, Colour:

Components	Ingredients	Form	Colour
Capture Antibodies	-	Liquid	Colourless
Biotinylated detection Antibody	-	Lyophilised	Blank
FITC-conjugated detection Antibody	FITC	Lyophilised	Blank
Streptavidin- AP	-	Liquid	Colourless
Anti FITC antibody HRP-conjugate	Proclin 300	Liquid	Light brown
BSA	-	Powder	Light brown
Blocking reagent	-	Powder or Liquid	Blank
50X concentrated AEC Substrate Buffer	3-Amino-9-ethylcarbazole	Liquid	Deep red
10X concentrated dilution buffer for AEC	-	Liquid	Clear
Ready to use BCIP/NBT substrate buffer	5-Bromo-4-chloro-3-indoxyl phosphate Nitro Blue Tetrazolium chloride	Liquid	Clear to very pale yellow

**Odour:** Odourless

**pH:** N/A

**Melting point/Melting range:** N/A

**Boiling point/Boiling range:** N/A

**Flash point:** N/A

**Autoignition temperature:** N/A

**Danger of explosion:** Product does not present an explosion hazard

**Density:** N/A

**Solubility in / Miscibility with water:** Fully miscible

## Section 10 - Stability and Reactivity

### 10.1 Reactivity

No available data

### 10.2 Chemical stability

**Thermal decomposition:** No decomposition if used according to specifications.

**Light:** BCIP/NBT tinge in brown under light exposition.

### 10.3 Others

#### Incompatibilities:

Streptavidin-AP: strong acids/alkalis, strong oxidizing/reducing agents.

BCIP/NBT: with bases, amines, alkali metals, copper, copper alloys.

Reagent containing Proclin 300: strong oxidising or reducing materials, amines.

Reagent FITC: alcohols, strong bases, amines, acids, strong oxidizing agents.

AEC 50X : acids and combustives.

#### Hazardous decomposition products:

BCIP/NBT: Toxic fumes of carbon monoxide, carbon dioxide, nitrous oxides, hydrogen chloride gas, hydrogen bromide gas, phosphorous oxides.

AEC 50X : carbon monoxide, carbon dioxide and nitrous oxides.

## Section 11 - Toxicological Information

**Route of entry:** Skin Contact, Eye contact, Inhalation, Ingestion.

**Effects of acute exposure to Product:**

Harmful if inhaled or absorbed through the skin. Causes eye and skin irritation. Very hazardous in case of ingestion.

Material is irritating and destructive to tissue of the mucous membranes and upper respiratory tract.

**Effects of chronic exposure to Product:**

Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

**Exposure Limits:** Not available

**Irritancy:** Not available

**Sensitization to Product:** Not available

**Carcinogenicity:** Not available

**Teratogenicity:** Not available

**Reproductive Toxicity:** Not available

**Mutagenicity:** Not available

**Synergistic Products:** Not available

## Section 12 – Ecological Information

**Toxicity:** Harmful for aquatic life.

**Persistence and degradability:** Not available.

**Bioaccumulative potential:** Not available.

**Mobility in soil:** Not available.

**Results of PBT and vPvB:** Not available.

**Others harmful effects:** Not available.

## Section 13 – Disposal Considerations

**Waste disposal:** Dispose of in accordance with local official environmental regulations.

## Section 14 – Transport Information

**Special shipping information:** Does not need to be shipped as hazardous.

## Section 15 – Regulatory Information

Labelling in accordance with EC directives

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EC Directives.

## Section 16 – Other Information

This information is prepared on our present and best knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### **Full text of any Hazard statements under Section 3:**

H302: Harmful if swallowed

H311: Toxic in contact with skin

H314: Causes severe skin burns and eye damage

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H319: Causes serious eyes irritation

H331: Toxic if inhaled

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335: May cause respiratory irritation

H350: May cause cancer

H370: Causes damage to organs

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. DIACLONE SAS shall not be liable for any damages resulting from handling or from contact with the above products.