

# Material safety data sheet

## *ELISPOT kit*

### *(silver staining procedure on PVDF plates)*

#### 1. Identification of the product (substance or mixture) and supplier/company

##### Product identifiers

Product: ELISPOT kit (silver staining procedure on PVDF membrane-bottomed plates)  
Catalogue no.: Please see section 16 for the exact products for with this MSDS applies.  
Brand: U-CyTech biosciences

##### Relevant identified uses of the product and uses advised against

Identified uses: Laboratory reagent. To be used in ELISPOT system.  
For R&D use only, not for food, drug, household or other uses.

##### Details of the supplier of the material safety data sheet

Supplier: U-CyTech biosciences  
Yalelaan 48  
3584 CM Utrecht  
The Netherlands  
Phone: +31 30 253 5960  
E-mail: info@ucytech.com

#### 2. Hazard identification

##### Classification of the products in this kit

Except for the Activator I+II solutions, the items in this kit are not classified as hazardous according to Regulation (EC) no. 1272/2008 and to Directives 67/548/EC and 1999/45/EC and their amendments.

##### Activator I+II solutions are classified as


According to Regulation (EC) no. 1272/2008:

- Serious eye damage (Category 1)
- Skin sensitization (Category 1)
- Chronic aquatic toxicity (Category 1)

According to Directive 67/548/EC and its amendments:

Risk of serious eye damage. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term effects in the aquatic environment.

**Label elements Activator I+II solutions**

**Pictogram:** 

**Signal word:** Danger

**Hazard statement:** H317: May cause an allergic skin reaction.  
 H318: Causes serious eye damage.  
 H410: Very toxic to aquatic life with long lasting effects.

**Precaution statements:** P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P305 + P351 + P338:  
 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P501: Dispose of contents/container to an approved waste disposal plant.

**Hazard symbol:** Xi: Irritant

**Risk phrase:** R41: Risk of serious damage to eyes.  
 R43: May cause sensitization by skin contact.  
 R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrase:** S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.  
 S36/37/38: Wear suitable protective clothing, gloves and eye/face protection.  
 S45: In case of accident or if you feel unwell, seek medical advice immediately.  
 S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

**Other hazards - none**

**3. Composition/information on ingredients**

Product name: ELISPOT kit (silver staining procedure on PVDF membrane-bottomed plates)

Ingredients:

Cas no.	EC no.	Index no.	Classification	Concentration
<b>Coating antibodies (lyophilized)</b>				
-	-	-	-	-

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Cas no.	EC no.	Index no.	Classification	Concentration
<b>Biotinylated detector antibodies (lyophilized)</b>				
-	-	-	-	-
<b>GABA conjugate (lyophilized)</b>				
-	-	-	-	-
<b>Activator I+II</b>				
-	-	-	Eye Dam. 1; Skin Sens. 1; Aquatic Chronic 1; H317, H318, H410 <hr/> Xi: R41, R43, R52/53	-
<b>Blocking stock solution B</b>				
-	-	-	-	-
<b>Dilution buffer B</b>				
-	-	-	-	-
<b>Tween-20 (C<sub>58</sub>H<sub>114</sub>O<sub>26</sub>)</b>				
-	-	-	-	-

For specific ingredients of all items in this kit and the full text of the Hazard statements and Risk phrases mentioned in this section, see section 16 of this material safety data sheet (MSDS).

#### 4. First aid measures

##### Description of first aid measures

- General advice: Consult physician. Show this MSDS to the doctor in attendance.
- After contact with skin: Wash contaminated area with soap and water. Remove contaminated clothing and shoes. Consult a physician.
- After swallowing: Do NOT induce vomiting (when swallowing one of the Activator I+II solutions) If the person is conscious, wash out mouth with water. Consult a physician.
- After contact with eyes: Rinse thoroughly with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids. Consult a physician.
- After inhalation: Provide fresh air. If breathing becomes difficult, consult a physician.

##### Most important symptoms and effects, both acute and delayed

Absorption of the ingredient hydroquinone (in Activator I+II) into the body leads to the formation of methemoglobin that in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

The ingredient sodium sulfite (in Activator I+II) may cause irritation of the gastrointestinal tract, violent colic and diarrhea and may cause disturbance of circulatory system or central nervous

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system depression and death. Persons with allergies and/or asthma may exhibit hypersensitivity to sulfites.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Indication of any immediate medical attention and special treatment needed**

No data available.

**5. Fire-fighting measures**

Extinguishing media: Water spray, carbon dioxide, dry chemical powder or alcohol-resistant foam.

Special hazards /risks: Except for Tween-20 and Activator I+II there is no data available.

Tween-20:

Vapors heavier than air.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapors possible in the event of fire. In case of fire carbon oxides may develop.

Activator I+II:

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), sulphur oxides.

Advice for fire fighters: Wear self-contained breathing apparatus and protective clothing for fire fighting if necessary.

**6. Accidental release measures**

Personal precautions: Use personal protective equipment to avoid exposure. Avoid formation of dust and aerosols. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation. Follow general safety rules for laboratories. Evacuate personnel to safe areas in case of an emergency.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let products enter drains. Discharge into the environment must be avoided.

Clean-up methods: Soak up with inert absorbent material or pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal (section 13).

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## 7. Handling and storage

**Safe handling:** Only for laboratory use. Use personal protective equipment to avoid (prolonged or repeated) exposure. Avoid formation of dust and aerosols. Ensure adequate ventilation. Follow general safety rules for laboratories.

Keep Activator I+II away from acids and sources of ignition; use only non-sparking tools. No smoking.

**Safe storage:** Store all items except Tween-20 at 2-8°C in a dry and well-ventilated place. Keep containers tightly closed. Keep Activator I+II away from acids, light, air and heat.

Store Tween-20 in a cool, dry and well-ventilated place. Keep containers tightly closed.

## 8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

### Appropriate engineering controls and hygiene measures

Facilities storing or utilizing this product should be equipped with an eyewash facility, a safety shower and mechanical exhaust. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

### Personal protective equipment

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

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Eye protection

The selected safety glasses have to have side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and body protection

The selected clothing has to be impervious.

**9. Physical and chemical properties**

Coating antibodies, biotinylated detector antibodies and GABA conjugate:

Physical state and appearance:	solid (lyophilized)	Color:	white
Odor:	no data available	pH (at 20°C):	no data available
Melting/freezing point:	no data available	Boiling/condensation point:	no data available
Flash point:	no data available	Auto ignition temperature:	no data available
Flammability limits:	no data available	Specific gravity:	no data available
Solubility:	soluble in water		

Activator I+II:

Physical state and appearance:	liquid	Color and form:	transparent, colorless
Odor:	no data available	pH (at 20°C):	no data available
Melting point:	no data available	Boiling/condensation point:	no data available
Flash point:	no data available	Auto ignition temperature:	no data available
Flammability limits:	no data available	Specific gravity:	no data available
Solubility:	solutions are aqueous solutions		

Blocking stock solution B and Dilution buffer B:

Physical state and appearance:	liquid	Color and form:	transparent, (light) yellow
Odor:	no data available	pH (at 20°C):	no data available
Melting/freezing point:	no data available	Boiling/condensation point:	no data available
Flash point:	no data available	Auto ignition temperature:	no data available
Flammability limits:	no data available	Specific gravity:	no data available
Solubility:	products are aqueous solutions		

Tween-20:

Physical state and appearance:	liquid to viscous	Color:	yellowish
Odor:	no data available	pH (at 20°C):	7
Melting/freezing point:	no data available	Boiling/condensation point:	100°C
Flash point:	> 110°C - closed up	Auto ignition temperature:	no data available
Flammability limits:	no data available	Density (at 25°C):	1.95 g/ml
Solubility:	soluble in water	Vapor pressure	< 1.33 hPa

**10. Stability and reactivity**

Chemical stability: Stable under recommended storage conditions.



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Conditions to avoid: Activator I+II: keep away from light, air, open flames and hot surfaces.  
 Other items: no data available.

Materials to avoid: Bases, oxidizing agents, strong oxidizing agents, strong acids, reducing agents, heavy metal salts, strong reducing agents, alcohol, ammonia, magnesium, acid chlorides, acid anhydrides.

Hazardous reactions/decomposition products:  
 No data available for all items except for the following items where hazardous decomposition products are formed under fire conditions:  
 Tween-20: Carbon oxides.  
 Activator I+II: Nitrogen oxides (NO<sub>x</sub>), silver/silver oxides, sulphur oxides. And sulphur dioxide when in contact with acids.

**11. Toxicological information**

Acute toxicity: Tween-20: LD<sub>50</sub> (oral, rat): 40.554 mg/kg.  
 Other items: no data available.

Irritation and corrosion (skin and eyes): Activator I+II: damaging to eyes.  
 Tween-20: mild skin irritation (human, 3 d)  
 Other items: no data available.

Sensitization (skin and respiratory): Activator I+II: May cause allergic skin reaction.  
 Other items: no data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: Activator I+II: Contain a component (hydroquinone) that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP or EPA classification. Limited evidence of carcinogenicity in animal studies.  
 Tween-20: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
 Other items: no data available.

Reproductive toxicity: No data available.

Specific target organ toxicity (single and repeated): No data available.

Aspiration hazard: No data available.

Signs and symptoms of exposure:  
 To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Potential health effects:  
 Activator I+II:  
 Inhalation: May be harmful if inhaled and may cause respiratory tract irritation.  
 Skin: May be harmful if absorbed through skin and causes skin irritation.  
 Eyes: Causes serious eye irritation.  
 Ingestion: May be harmful if swallowed.



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Aggravated medical condition: Bronchoconstriction, bronchospasm, gastrointestinal disturbance, flushing, hypotension, tingling sensation, urticaria/angioedema, shock. Exposure can aggravate asthma.

Signs and symptoms of exposure:

Symptoms of exposure to sodium bisulfite and sodium sulfite may include burning sensation, coughing wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, chest pain, difficulty in breathing, gastrointestinal discomfort, violent colic, diarrhea and disturbance of circulatory system or central nervous system depression and death. Persons with allergies and/or asthma may exhibit hypersensitivity to sulfites. Absorption of the ingredient hydroquinone into the body leads to the formation of methemoglobin that in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

Other items:

Inhalation: May be harmful if inhaled and may cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin and may cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Further hazardous properties cannot be excluded. The products should be handled with the care usual when dealing with chemicals.

Additional information:

RTECS: Tween-20: TR7400000 - Others items: not available.

## 12. Ecological information

Toxicity: Tween-20: LC<sub>50</sub> (fish, 24h): 350 mg/l.

Other items: 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: Activator I+II: May cause long-term adverse effects in the aquatic environment.

Other items: no data available.

## 13. Disposal considerations

- Product: The generation of waste should be avoided or minimized wherever possible.  
Contact a licensed professional waste disposal service to dispose these materials.  
Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  
Observe all federal, state and local environmental regulations.



Packaging: Dispose of as unused product.

#### 14. Transport information

This product is not dangerous for road (ARD), rail (RID), inland waterways (ADNR), sea (IMDG) and air (ICAO/IATA) transport. UN number is not available.

#### 15. Regulatory information

Coating antibodies, biotinylated detector antibodies, GABA conjugate, Blocking stock solution B, Dilution buffer B and Tween-20 are not classified as dangerous according to EU legislation. Activator I+II solutions are classified as dangerous according to Regulation (EC) no. 1272/2008 and Directive 67/548/EC and its amendments.

#### 16. Other information

##### Specific ingredients of the items of this kit

- Lyophilized coating antibodies, biotinylated detector antibodies and GABA conjugate (when reconstituted):

Cas no.	EC no.	Index no.	Classification	Concentration
<b>Proteins (antibodies or GABA conjugate respectively)</b>				
-	-	-	-	< 1%
<b>Serum albumin (<i>this ingredient is not present in coating antibodies</i>)</b>				
9048-46-8	232-936-2	-	-	1%
<b>Trehalose, dihydrate (C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> • 2H<sub>2</sub>O)</b>				
6138-23-4	202-739-6	-	-	< 5%

- Blocking stock solution B and Dilution buffer B:

Information regarding the specific chemical identity of Blocking stock solution B and Dilution buffer B is being withheld as a trade secret of the manufacturer. However, the products contain no substances which at their given concentration, are considered to be hazardous to health according to Regulation (EC) no. 1272/2008 and Directive 67/548/EC and its amendments.

- Tween-20 (Tween is a registered trade mark of Uniqema, a business unit of ICI Americas Inc.; synonyms: Polyoxyethylenesorbitan monolaurate, polyethylene glycol sorbitan monolaurate):

Cas no.	EC no.	Index no.	Classification	Concentration
<b>Tween-20</b>				
9005-64-5	500-018-3	-	-	-

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• Activator I+II:

Cas no.	EC no.	Index no.	Classification	Concentration
<b>4-(Methylamino)phenol hemisulfate salt</b> (formula: $C_7H_9NO \cdot 0.5H_2SO_4$ ; synonym: metol)				
55-55-0	200-237-1	650-031-00-4	Acute Tox. 4; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; STOT RE 2; H373, H302, H317, H410  Xn, N; R22, R43, R48/22, R50/53	< 1%
<b>Hydroquinone</b> (formula: $C_6H_6O_2$ ; synonym: 1,4-Benzenediol)				
123-31-9	204-617-8	604-005-00-4	Carc. 2; Acute Tox. 4; Germ Cell Mut. 2; Eye Dam. 1; Skin Sens. 1; Aquatic Acute 1; H400, H302, H317, H318, H341, H351  Xn, N; R22, R40, R41, R43, R50, R68	< 1%
<b>Sodium bisulfite</b> (formula: $Na_2S_2O_5$ ; synonym: sodium metabisulfite)				
7681-57-4	231-673-0	016-063-00-2	Acute Tox. 4; Eye Dam. 1; H302, H318, EUH031  Xn; R22, R31, R41	10% (in Activator II)
<b>Sodium sulfite</b> (formula: $Na_2O_3S$ ; synonym: disodium sulfite)				
7757-83-7	213-821-4	-	EUH031  R31	< 1%
<b>Silver nitrate</b> (formula: $AgNO_3$ ; synonym: silver(+1) cation nitrate)				
7761-88-8	231-853-9	047-001-00-2	Ox. Sol. 2; Skin Corr. 1B; Aquatic Acute 1; Aquatic Chronic 1; H272, H314, H410  O, C, N; R8, R34, R50/53	< 1%

**Text of Hazard statements and Risk phrases mentioned in section 3 and 16**

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage

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Germ Cell Mut.	Germ cell mutagenicity
Ox. Sol.	Oxidizing solids
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause allergic skin reaction
H318	Causes serious eye damage
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
EUH031	Contact with acids liberates toxic gas.
C	Corrosive
N	Dangerous for the environment
O	Oxidizing
Xi	Irritant
Xn	Harmful
R8	Contact with combustible material may cause fire.
R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas
R34	Causes burns
R40	Limited evidence of carcinogenic effect
R41	Risk of serious damage to eyes
R43	May cause sensitization by skin contact
R50	Very toxic to aquatic organisms
R68	Possible risk of irreversible effects
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**This MSDS applies for the following U-CyTech ELISPOT kits**  
*(please find below the catalogue number of the ELISPOT kit)*

Analyte	Species			
	Human	Old World Monkey	Mouse	Rat
IFN-γ	CT230-PB2 (2-plate)	CT121-PB2 (2-plate)	CT317-PB2 (2-plate)	CT080-PB2 (2-plate)
	CT230-PB5 (5-plate)	CT121-PB5 (5-plate)	CT317-PB5 (5-plate)	CT080-PB5 (5-plate)

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Analyte	Species			
	Human	Old World Monkey	Mouse	Rat
IFN- $\gamma$		CT126-PB2 (2-plate) CT126-PB5 (5-plate)		
IL-1 $\beta$	CT242-PB2 (2-plate) CT242-PB5 (5-plate)	CT123-PB2 (2-plate) CT123-PB5 (5-plate)		
IL-2	CT231-PB2 (2-plate) CT231-PB5 (5-plate)	CT127-PB2 (2-plate) CT127-PB5 (5-plate)	CT435-PB2 (2-plate) CT435-PB5 (5-plate)	
IL-4	CT232-PB2 (2-plate) CT232-PB5 (5-plate)	CT128-PB2 (2-plate) CT128-PB5 (5-plate)	CT319-PB2 (2-plate) CT319-PB5 (5-plate)	
IL-5	CT233-PB2 (2-plate) CT233-PB5 (5-plate)	CT129-PB2 (2-plate) CT129-PB5 (5-plate)	CT321-PB2 (2-plate) CT321-PB5 (5-plate)	
IL-6	CT234-PB2 (2-plate) CT234-PB5 (5-plate)	CT130-PB2 (2-plate) CT130-PB5 (5-plate)	CT436-PB2 (2-plate) CT436-PB5 (5-plate)	
IL-10	CT235-PB2 (2-plate) CT235-PB5 (5-plate)	CT131-PB2 (2-plate) CT131-PB5 (5-plate)	CT320-PB2 (2-plate) CT320-PB5 (5-plate)	
IL-12/23p40		CT135-PB2 (2-plate) CT135-PB5 (5-plate)		
IL-12p70	CT240-PB2 (2-plate) CT240-PB5 (5-plate)			
IL-13	CT236-PB2 (2-plate) CT236-PB5 (5-plate)	CT132-PB2 (2-plate) CT132-PB5 (5-plate)		
IL-17A	CT416-PB2 (2-plate) CT416-PB5 (5-plate)	CT401-PB2 (2-plate) CT401-PB5 (5-plate)		
IL-17F				
GM-CSF	CT241-PB2 (2-plate) CT241-PB5 (5-plate)	CT124-PB2 (2-plate) CT124-PB5 (5-plate)		
Granzyme B	CT229-PB2 (2-plate) CT229-PB5 (5-plate)			
Perforin	CT681-PB2 (2-plate) CT681-PB5 (5-plate)	CT136-PB2 (2-plate) CT136-PB5 (5-plate)		
TNF- $\alpha$	CT237-PB2 (2-plate) CT237-PB5 (5-plate)	CT133-PB2 (2-plate) CT133-PB5 (5-plate)	CT322-PB2 (2-plate) CT322-PB5 (5-plate)	

#### Further information

The information provided with this document is furnished in good faith and without warranty of any kind. Personnel handling this product must consider these data only as supplemental to other information gathered by them and must make independent determinations of its suitability and completeness of information from all sources to assure proper use and disposal of the materials and the safety and health of employees and customers. U-CyTech B.V. shall not be held liable for any damage resulting from handling or from contact with the above product.

See [www.ucytech.com](http://www.ucytech.com) under Prices & Terms for additional terms and conditions of sale.

MSDS ELISPOT kit (PB)  
 Version: 03  
 Revised at: 22MAY'12

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