

## Product Line BExxxx Cytokines / Adhesion Molecules ELISA

BE59321	Annexin V ELISA	BE45201	mInterferon-gamma ELISA	BE45451	rTGF-beta-1 ELISA
BE59331	Annexin V-Ab ELISA	BE45101	mInterleukin-10 ELISA	BE45471	rTNF-alpha ELISA
30150490	APO-1/FAS ELISA	BE45131	mInterleukin-12p70 ELISA	BE45491	rVEGF-C ELISA
BE51801	APRIL ELISA	BE45141	mInterleukin-13 ELISA	BE59271	s90K/Mac-2BP ELISA
BE51931	Bcl-2 ELISA	BE45151	mInterleukin-15 / mInterleukin-15R ELISA	BE59401	sCD134 (OX40) ELISA
BE52081	Caspase-8 ELISA	BE45171	mInterleukin-17 ELISA	BE59191	sCD137 (4-1BB) ELISA
BE52091	Caspase-9 ELISA	BE45071	mInterleukin-17AF ELISA	30150480	sCD23 ELISA
BE59211	Cathepsin L ELISA	BE45001	mInterleukin-1alpha ELISA	30150497	sCD26 ELISA
30150476	Cu/ZnSOD ELISA	BE45111	mInterleukin-1beta ELISA	BE59181	sCD28 ELISA
BE51981	Cytochrome c ELISA	BE45021	mInterleukin-2 ELISA	30150498	sCD30 ELISA
BE59341	Fibronectin ELISA	BE45031	mInterleukin-2 high sensitivity ELISA	BE59161	sCD40 ELISA
BE59221	Galectin-3 ELISA	BE45161	mInterleukin-22 ELISA	30150492	sCD40L ELISA
BE51081	GM-CSF ELISA	BE45191	mInterleukin-23 ELISA	30150478	sCD40L high sensitive ELISA
BE52001	Granzyme A ELISA	BE45041	mInterleukin-4 ELISA	30150499	sCD44std ELISA
BE52011	Granzyme B ELISA	BE45051	mInterleukin-5 ELISA	BE59241	sCD44var (v5) ELISA
BE53221	IL-12/ IL-23 p40 ELISA	BE45061	mInterleukin-6 ELISA	BE59251	sCD44var (v6) ELISA
30150434	Interferon-alpha ELISA	BE45211	mIP-10 ELISA	BE51911	sCTLA-4 ELISA
BE51051	Interferon-alpha-Ab ELISA	BE45601	mkInterleukin-10 ELISA	30149799	sE-Selectin ELISA
30147115	Interferon-gamma ELISA	BE45621	mkInterleukin-12 ELISA	30150491	sFAS Ligand ELISA
BE58331	Interferon-gamma high sensitivity ELISA	BE45511	mkInterleukin-1beta ELISA	BE59201	sHER-2 ELISA
30150489	Interferon-omega ELISA	BE45521	mkInterleukin-2 ELISA	30150495	sICAM-1 ELISA
30147233	Interleukin-10 ELISA	BE45561	mkInterleukin-6 ELISA	BE59001	sICAM-1 high sensitivity ELISA
BE58101	Interleukin-10 high sensitivity ELISA	BE45581	mkInterleukin-8 ELISA	BE59021	sICAM-2 ELISA
30147236	Interleukin-12p70 ELISA	BE45721	mksE-Selectin ELISA	BE59031	sICAM-3 ELISA
30147239	Interleukin-13 ELISA	BE45711	mksICAM-1 ELISA	30166211	sInterleukin-2-Receptor ELISA
BE53171	Interleukin-17A ELISA	BE45751	mksPECAM-1 ELISA	BE51161	sInterleukin-6-Receptor ELISA
30150433	Interleukin-1alpha ELISA	BE45741	mksP-Selectin ELISA	BE55071	sLIF-R (gp190) ELISA
30149805	Interleukin-1beta ELISA	BE45701	mksTNF-R1 ELISA	30150496	sL-Selectin ELISA
BE58011	Interleukin-1beta high sensitivity ELISA	BE45761	mksVE-Cadherin ELISA	BE59041	sPECAM-1 ELISA
BE51071	Interleukin-1ra ELISA	BE45691	mTNF-alpha ELISA	30147241	sP-Selectin ELISA
30149807	Interleukin-2 ELISA	BE45241	mMCP-1 ELISA	BE59101	sPSGL-1 ELISA
BE58021	Interleukin-2 high sensitivity ELISA	BE59431	MMP-13 (Matrix Metalloprotease-13) ELISA	BE59109	sPSGL-1 ELISA
BE53211	Interleukin-21 ELISA	30147243	MMP-9 ELISA	30150493	sTNF-R (60kDa) ELISA
BE53321	Interleukin-22 ELISA	BE45221	msCD40L ELISA	30150494	sTNF-R (80kDa) ELISA
BE53231	Interleukin-23 ELISA	BE45271	mTGF-beta-1 ELISA	30150479	sVCAM-1 ELISA
BE53301	Interleukin-31 ELISA	BE45291	mTNF-alpha ELISA	BE59131	sVEGF-R1 ELISA
BE53331	Interleukin-33 ELISA	BE45251	mVEGF-A ELISA	BE45981	swInterleukin-18 ELISA
30147227	Interleukin-4 ELISA	BE59261	p53 ELISA	BE55041	TGF-beta 1 ELISA
BE58041	Interleukin-4 high sensitive human	BE59351	PAI-1 ELISA	30147295	TNF-alpha (free) ELISA
30147229	Interleukin-5 ELISA	BE45431	rGM-CSF ELISA	BE59501	TNF-alpha BioLISA
30147231	Interleukin-6 ELISA	BE45301	rInterferon-gamma ELISA	30147293	TNF-alpha ELISA
BE58061	Interleukin-6 high sensitivity ELISA	BE45311	rInterleukin-10 ELISA	BE58351	TNF-alpha high sensitivity ELISA
30149813	Interleukin-8 ELISA	BE45371	rInterleukin-17A ELISA	BE55011	TNF-beta ELISA
BE53091	Interleukin-9 ELISA	BE45401	rInterleukin-1alpha ELISA	BE59411	t-PA ELISA
BE55061	LIF ELISA	BE45411	rInterleukin-1beta ELISA	BE55091	TRAIL ELISA
30150435	MCP-1 ELISA	BE45321	rInterleukin-2 ELISA	BE59511	VEGF-A BioLISA
BE45261	mEotaxin ELISA	BE45341	rInterleukin-4 ELISA	30150477	VEGF-A ELISA
BE45231	mGM-CSF ELISA	BE45361	rInterleukin-6 ELISA	BE55111	VEGF-C ELISA

Not listed single components contains no hazardous substances in concentrations to be declared, a labelling is not required.



**IBL International GmbH**  
 Flughafenstrasse 52a  
 22335 Hamburg, Germany



**Safety data sheet**  
according to 1907/2006/EC, Article 31

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

· **Product identifier**

· **Trade name:** Product Line BExxxxx, Cytokines / Adhesion Molecules ELISA

· **Article number:** Valid for products listed in the table on the first page.

· **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

· **Application of the substance / the preparation:**

laboratory reagent / Immunoassay

The product is intended for professional use.

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

IBL International GmbH

Flughafenstr. 52 a

22335 Hamburg

Germany

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E-Mail: IBL@tecan.com

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· **Further information obtainable from:** Safety Representative

· **Emergency telephone number:** ++49-40-53 28 91 - 0

**SECTION 2: Hazards identification**

· **Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

The product is not classified, according to the CLP regulation.

· **Label elements**

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

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Additional information:**

Safety data sheet available on request.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

· **Chemical characterisation: Mixtures**

Preparation

Not listed reagents contains no hazardous substances in concentrations to be declared.


Labelling not required.

· **Description:**


Stop Solution contains Phosphoric Acid

TMB Substrate contains Tetramethylbenzidine.

· **Dangerous components:**

CAS: 7664-38-2 EINECS: 231-633-2	phosphoric acid	 Skin Corr. 1B, H314	<10%
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· **Components**

CAS: 5949-29-1	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate	<5%
CAS: 54827-17-7 EINECS: 259-364-6	3,3',5,5'-tetramethylbenzidine	<0.1%
	 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330	

(Contd. on page 2)

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(Contd. of page 1)

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

- **Description of first aid measures**
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Generally the product does not irritate the skin.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

#### **SECTION 5: Firefighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

#### **SECTION 6: Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material.
- **Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

- **Handling**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
None.  
The kit is shipped at ambient temperature and should be stored at 2-8°C. Keep away from heat or direct sun light. The storage and stability of prepared reagents is stated in the corresponding chapters of the instruction for use.
- **Specific end use(s)** No further relevant information available.

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(Contd. on page 3)

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(Contd. of page 2)

**SECTION 8: Exposure controls/personal protection**

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**7664-38-2 phosphoric acid**

<b>WEL</b>	Short-term value: 2 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
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· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures** Wash hands before breaks and at the end of work.

· **Respiratory protection:** Not required.

· **Protection of hands:** Protective gloves.

· **Material of gloves**

The quality of the protective gloves must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling.

· **Body protection:** lab coat

**SECTION 9: Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	liquid or lyophilized
<b>Colour:</b>	Different according to colouring
<b>Odour:</b>	uncharacteristic
<b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

<b>Melting point/freezing point:</b>	undetermined
<b>Initial boiling point and boiling range:</b>	undetermined

· **Flash point:** Not applicable

· **Flammability (solid, gaseous)** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

· **Vapour pressure:** Not determined.

(Contd. on page 4)

**Safety data sheet**  
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Revision: 23.03.2021

**Trade name: Product Line BExxxxx, Cytokines / Adhesion Molecules ELISA**

(Contd. of page 3)

· <b>Density:</b>	<i>Not determined</i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>
· <b>Evaporation rate</b>	<i>Not determined.</i>
· <b>Solubility in / Miscibility with Water:</b>	<i>Fully miscible</i>
· <b>Partition coefficient: n-octanol/water:</b>	<i>Not determined.</i>
· <b>Viscosity:</b>	
dynamic:	<i>Not determined.</i>
kinematic:	<i>Not determined.</i>
· <b>Other information</b>	<i>No further relevant information available.</i>

**SECTION 10: Stability and reactivity**

- **Reactivity** *No further relevant information available.*
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *No dangerous reactions known*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:** *No dangerous decomposition products known*

**SECTION 11: Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity** *Based on available data, the classification criteria are not met.*
- **Primary irritant effect:**
- **Skin corrosion/irritation** *Based on available data, the classification criteria are not met.*
- **Serious eye damage/irritation** *Based on available data, the classification criteria are not met.*
- **Respiratory or skin sensitisation** *Based on available data, the classification criteria are not met.*
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*
- **Carcinogenicity** *Based on available data, the classification criteria are not met.*
- **Reproductive toxicity** *Based on available data, the classification criteria are not met.*
- **STOT-single exposure** *Based on available data, the classification criteria are not met.*
- **STOT-repeated exposure** *Based on available data, the classification criteria are not met.*
- **Aspiration hazard** *Based on available data, the classification criteria are not met.*

**SECTION 12: Ecological information**

- **Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **Persistence and degradability** *No further relevant information available.*
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** *No further relevant information available.*
- **Mobility in soil** *No further relevant information available.*

(Contd. on page 5)

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(Contd. of page 4)

- **Additional ecological information:**
- **General notes:**  
*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **Waste treatment methods**
- **Recommendation** Dispose of waste according to applicable local, state, and federal regulations.
- **Uncleaned packaging:**
- **Recommendation:** Dispose of packaging according to applicable local, state, and federal regulations.

**SECTION 14: Transport information**

· <b>UN-Number</b>	-
· <b>UN proper shipping name</b>	-
· <b>Transport hazard class(es)</b>	-
· <b>Packing group</b>	-
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	<i>Not dangerous according to the above specifications. This product is part of a kit. Information in this section refers to the kit as a whole.</i>
· <b>ADR</b>	
· <b>Remarks:</b>	<i>No dangerous good in sense of this transport regulation.</i>
· <b>Remarks:</b>	<i>No dangerous good in sense of this transport regulation.</i>
· <b>IMDG</b>	
· <b>Remarks:</b>	<i>No dangerous good in sense of this transport regulation.</i>
· <b>IATA</b>	
· <b>Remarks:</b>	<i>No dangerous good in sense of this transport regulation.</i>
· <b>UN "Model Regulation":</b>	<i>ohne</i>

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(Contd. on page 6)

**Safety data sheet**  
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(Contd. of page 5)

**SECTION 15: Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

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

· **Relevant phrases**

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H330 Fatal if inhaled.

· **Department issuing SDS:**

· **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B