

Material Safety Data Sheet (MSDS)

ARG81251 Human BDNF ELISA Kit

Version: 2020/08/25

1. Product and Company Identification

Product Catalog No: ARG81251

Product Name: Human BDNF ELISA Kit

Supplier: Arigo Biolaboratories Corp.

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2. Composition / Information on Ingredients

Description of the mixture:

Mixture of nonhazardous substances, with additions listed below.

Component number	Component name	Volume	Safety Information
1	Antibody-coated microplate	8 X 12 strips	No hazards
2	Standard (Lyophilized)	2 vials	Contains 0.09% Sodium azide and 1% Kathon™
3	Standard/Sample diluent buffer	16 ml	Contains 1% Kathon™
4	Antibody conjugate concentrate	2 vial (60 µl)	Contains <0.09% Sodium azide and 1% Kathon™
5	Antibody diluent buffer	16 ml	Contains 1% Kathon™
6	HRP-Streptavidin concentrate	2 vial (60 µl)	Contains 0.09% Sodium azide and 1% Kathon™
7	HRP-Streptavidin diluent buffer	16 ml	Contains 0.09% Sodium azide and 1% Kathon™
8	20X Wash buffer	25 ml	No hazards
9	TMB substrate	12 ml	Contains 3,3',5,5'-tetramethylbenzidine (TMB)
10	STOP solution	12 ml	Contains 1N H ₂ SO ₄
11	Plate sealer	4 strips	No hazards

Hazardous ingredients:

Chemical name	CAS No. (EC No.) [Index No.]	Amount in the mixture	Classification according to Regulation (EC) No 1272/2008 [CLP] (related to the concentrated form)		Classification according to Directive 67/548/EEC (related to the concentrated form)
			Hazard class/ Hazard categories	Hazard- statement	
Sodium Azide	26628-22-8 [011-004-00-7]	<0.1%*	Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1	H300; H400; H410	T+;R28-32 N;R50/53

Kathon™ CG*	55965-84-9 (---) [613-167-00-5]	1 %	Acute Tox. 3 Acute Tox. 3 Acute Tox. 3 Skin Corr. 1B Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	H331 H311 H301 H314 H317 H400 H410	T; R23/24/25 C; R34 R43 N; R50-53
sulphuric acid ... %	7664-93-9 (231- 639-5) [016- 020-00-8]	<5 %	Skin Corr. 1A	H314	C; R35
3,3',5,5'- tetramethylbenzidine	54827-17-7 (259-364-6) [-]	<0.1	-	-	Xi, R36, R37, R38
*Dilution is not classified as hazardous according to the European Regulation 67/548/EEC and 1999/45/EC or 1272/2008/EC.					

Full text of R-, and H-phrases: see section 16.

3. Hazards Identification

Classification of the substance or mixture

Product is **not classified as hazardous** according to the European Regulation 67/548/EEC and 1999/45/EC or 1272/2008/EC.

Label elements

No labelling required.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

4. First Aid Measures

Description of first aid measures

General information	No special measures required.
Following inhalation	Supply fresh air; consult doctor in case of complaints.
Following skin contact	Wash with plenty amounts of water.
Following eye contact	Rinse opened eye for several minutes under running water.
Following swallowing	If symptoms persist consult 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.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing agents:

No restriction; use any means suitable for extinguishing surrounding fire.

Unsuitable extinguishing media:

None

Special hazards arising from the substance or mixture

Hazardous combustion products:

No further relevant information available.

Advice for firefighters

No special measures required.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use appropriate personal protective equipment.

Environmental precautions

Dilute with plenty of water.

Do not allow to enter surface or ground water.

Methods and material for containment and cleaning up

Absorb with liquid-binding material.

Dispose contaminated material as waste according to section 13.

Reference to other sections

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

7. Handling and Storage

Precautions for safe handling

- Use all reagents in accordance with the relevant instruction for use.
- Observe laboratory safety regulations.
- Do not eat, drink, smoke or apply cosmetics in areas where kit reagents are handled.
- Wear disposable latex gloves when handling reagents.
- Handling should be done in accordance with the procedures defined by an appropriate national biohazard safety guideline or regulation.

Conditions for safe storage, including any incompatibilities

- No special requirements.
- Store all reagents as directed in the relevant instruction for use.

Specific end use

For professional in vitro diagnostic use only.

8. Exposure Controls / Personal Protection

Control parameters

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

Exposure controls

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during aspiration, dispensing or refilling.

Skin protection: Lab coat.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

	Calibrator	Enzyme Conjugate/antibodies	Substrate Solution	Stop Solution
Appearance				
The physical state	Liquid			
Colour	diverse (has no influence to the properties of the mixture)			
Odour	odourless			
Odour threshold	no data available			
pH	6.8 - 7.2	6.8	3.6 - 3.8	< 1.0
Melting point/freezing point	no data available			
Initial boiling point and boiling range	no data available			
Flash point	no data available			
Evaporation rate	no data available			
Flammability (solid, gas)	no data available			
Upper/lower flammability or explosive limits	no data available			
Vapour pressure	no data available			
Vapour density	no data available			
Relative density	no data available			
Solubility(ies)	no data available			
Partition coefficient: n-octanol/water	no data available			
Auto-ignition temperature	no data available			
Decomposition temperature	no data available			
Viscosity	no data available			
Explosive properties	no data available			
Oxidising properties	no data available			

Other information

No other information available.

10. Stability and Reactivity

Reactivity: No data available.

Chemical stability: No data available.

Possibility of hazardous reactions: No data available.

Conditions to avoid: No conditions known.

Incompatible materials: No materials known.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological Information**Information on toxicological effects**

Acute toxicity: No data available.

Irritation: Due to its low pH value Substrate Solution and Stop Solution are irritant to the eye.

Corrosivity: Sulfuric acid induces tissue injury after contact.

Sensitization: No data available.

Repeated dose toxicity: No data available.

Carcinogenicity: No data available.

Mutagenicity: No data available.

Toxicity for reproduction: No data available.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. Ecological Information

Toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Results of PBT and vPvB assessment: Not applicable.

Other adverse effects: No further relevant information available.

13. Disposal Considerations

Waste treatment methods

Product:

Recommendation: Dispose of waste according to applicable local, state, and federal regulations.

Uncleaned packaging:

Recommendation: Dispose of waste according to applicable local, state, and federal regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transport Information

This product is not subject to official transport regulations.

UN number: None

UN proper shipping name: None

Transport hazard class(es): None

Packing group: None

Environmental hazards: None

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15. Regulatory Information

This Safety Data Sheet is according to:

1907/2006/EC: Registration, evaluation and authorization of chemicals regulation (REACH)

1272/2008/EC: Classification, labelling and packaging regulation (CLP, globally harmonized system GHS)
replaces 67/548/EEC and 1999/45/EC, amending 1907/2006/EC

453/2010/EC: Compilation of safety data sheets regulation (SDS), amending 1907/2006/EC

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

No data available.

Chemical safety assessment

Not applicable.

16. Other Information

"H code" and "R Phrases" used in this Safety data sheet

Reg. 1272/2008	Dir. 67/548/EEC	
H300	-	Fatal if swallowed
H301	-	Toxic if swallowed.
H311	-	Toxic in contact with skin.
H314	-	Causes severe skin burns and eye damage.
H317	-	May cause an allergic skin reaction.
H331	-	Toxic if inhaled.
H400	-	Very toxic to aquatic life.
H410	-	Very toxic to aquatic life with long lasting effects.
-	R28	Very toxic if swallowed
-	R29	Contact with water liberates toxic gas.
-	R30	Can become highly flammable in use
-	R31	Contact with acids liberates toxic gas
-	R32	Contact with acids liberates very toxic gas
	R36	Irritating to eyes
	R37	Irritating to respiratory system
-	R38	Irritating to skin
-	R34	Causes burns.
-	R35	Causes severe burns.
-	R43	May cause sensitization by skin contact.
	R50	Very toxic to aquatic organisms
	R51	Toxic to aquatic organisms
	R52	Harmful to aquatic organisms
	R53	May cause long-term adverse effects in the aquatic environment
-	R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Data compared to the previous version altered.