



EAGLE
BIOSCIENCES

Material Safety Data Sheet
according to 1907/2006/EG

EIA for Quantitative Determination of anti-
Muscarinic Cholinergic Receptor 1 (M1)-
Antibodies

Version: 01
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Reviewed on:
10.10.2017

1. Product and Company Information

Products:

EIA for Quantitative Determination of anti- Muscarinic Cholinergic Receptor 1 (M1)-Antibodies (human)
EIA for Quantitative Determination of anti- Muscarinic Cholinergic Receptor 2 (M2)-Antibodies (human)
EIA for Quantitative Determination of anti- Muscarinic Cholinergic Receptor 3 (M3)-Antibodies (human)
EIA for Quantitative Determination of anti- Muscarinic Cholinergic Receptor 4 (M4)-Antibodies (human)
EIA for Quantitative Determination of anti- Muscarinic Cholinergic Receptor 5 (M5)-Antibodies (human)

Product Numbers:

M1A31-K01, M2A31-K01, M3A31-K01, M4A31-K01, M5A31-K01

Distributor:

EAGLE BIOSCIENCES

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2. Composition/Information on Ingredients

Component	Amount	Remarks
Microplate strips, muscarinic receptor coated	12 x 8 wells	
Wash buffer, 10fold conc.	50 ml	contains ProClin 300
Diluent sample, ready to use	50 ml	contains ProClin 300
Diluent conjugate, ready to use	14 ml	contains ProClin 300
Calibrator 1-5	1 ml each	contains ProClin 300
Positive control, ready to use ◊	1 ml	contains ProClin 300
Negative control, ready to use ◊	1 ml	contains ProClin 300
anti-human-IgG, HRP conjugate, 100fold conc.	0.2 ml	contains ProClin 300
TMB substrate, ready to use	12 ml	See below
Stop solution, ready to use	12 ml	< 5% sulphuric acid

for TMB substrate

Dangerous components according to (EC) 1272/2008:

REACH Register-number	EINECS	CAS-No.	name	percent-age	symbol	H-statements
01-2119472430-46-XXXX	212-828-1	872-50-4	N-Methyl-2-pyrrolidone	< 5.0	Danger!	H315, H319, H335, H360D

The full text of H-statements is in article 16

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3. Hazards Identification

All chemicals are potentially dangerous. They should be handled by trained staff only.

For TMB substrate only:

According to the EU-edict (EC) 1272/2008 modified by (EC) 2016/1179 the mixture is classified as reproductive toxic (Repr. 1B, H360D).

Because of the preservative it may be dangerous for water organisms.

LABEL ELEMENTS

Pictogram



Signal word

Danger!

Hazard class

reproductive toxicity Repr. 1B

Hazard Statement(s)

H360D: May damage the unborn child.

Precautionary Statement(s)

P280: Wear protective gloves/protective clothing/eye protection/face protection

Note: According to the EU-edict (EC) 1272/2008, article 1, 5 (d) the labelling shall not apply to IVD as defined in the Directive 98/79/EC.

For all other components:

The preparation is not classified as dangerous according to Directive 99/45/EC.

4. First-Aid Measures

In case of exposure to reagent solutions, we recommend following these emergency first-aid procedures:

1. Skin or Eye Contact: Wash with water for at least 15 minutes. Remove any contaminated clothing.
2. Inhalation: Remove individual to fresh air. If breathing is difficult give oxygen and call a physician.
3. Ingestion: Rinse mouth with copious amounts of water and call a physician.

5. Fire Fighting Measures

not applicable

Using the reagents according to protocol should not incur a fire or explosion hazard. In case of fire, use water, foam, carbon dioxide, or dry chemical, as suitable for the surrounding fire and materials.

6. Accidental Release Measures

Remove by means of fluid-binding material and dispose. Clean up with water.

7. Handling and Storage

Information for safe handling:

Observe the general safety regulations when handling chemicals.

Avoid contact with the eyes, skin and mucous membranes.

Storage:

Store in the original container at 2 to 8°C.

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8. Exposure controls and personal protection gear

Spill Response - Wear laboratory coat, gloves and safety glasses. Use standard laboratory absorbent materials for clean up.

Bovine spongiform encephalitis has not been reported in the country of collection of the BSA.

Hygienic Practices in Handling. Handle all samples and materials in contact with samples according to NCCLS guidelines for preventing transmission of blood-bore infections.

for TMB substrate:

EINECS	name	limit value according to MAK (TRGS 900)	limit value according to BGW (TRGS 903)
212-828-1	N-Methyl-2-pyrrolidone	82 mg/m ³	150 mg/l urine at the end of a shift, parameter: 5-Hydroxy-N-Methyl-2-pyrrolidone

If the products are used according to the instructions, no air pollution is to be expected.

8.2 EXPOSURE CONTROLS

Consider the usual good hygiene and safety practice by handling chemicals.

Pregnant women should strictly avoid inhalation or skin contact.

9. Physical and chemical properties

Kit in carton box containing plastic tubes.

10. Stability and reactivity

The product is stable in accordance with the recommended storage conditions.

11. Toxicological information

for TMB substrate:

a) acute toxicity

Component	valuation	value	species
N-Methyl-2-pyrrolidone	LD ₅₀ (oral)	3598 mg/kg	rat
	LC ₅₀ (inhalativ)	>5.1 mg/l	rat

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b) skin corrosion/irritation

Component	valuation	value	species
N-Methyl-2-pyrrolidone	LD ₅₀ (dermal)	8000 mg/kg	rabbit
Risk of skin resorption			
(c) serious eye damage/irritation			
No information available			
(d) respiratory or skin sensitization			
No information available			
(e) germ cell mutagenicity			
No information available			
(f) carcinogenicity			
No information available			
(g) reproductive toxicity			
May damage the unborn child: N-Methyl-2-pyrrolidone (Repr. 1B)			
(h) STOT-single exposure			
May cause respiratory irritation.			
(i) STOT-repeated exposure			
No specific target organ toxicant, repeated exposure			
(j) aspiration hazard			
No information available			

for all other components:

Quantitative data on the toxic effects of this product are not available.

12. Ecological information

12.1 TOXICITY

For TMB substrate (contains N-Methyl-2-pyrrolidone):

bluegill (<i>Lepomis macrochirus</i>)	LC50 (mg/l/96h)	832
gold orfe (<i>Leuciscus idus</i>)	LC50 (mg/l/96h)	> 500
green alga (<i>Desmodesmus subspicatus</i>)	IC50 (mg/l/72h)	> 500
invertebrates (<i>Daphnia magna</i>)	EC50 (mg/l/48h)	4897

For all other components:

Quantitative data on the toxic effects of this product are not available. In general preservatives are toxic for aquatic organisms.

12.2 PERSISTENCE AND DEGRADABILITY

N-Methyl-2-pyrrolidone is easily biologically degradable (> 90%/20 d), no Bioaccumulation expected

13. Disposal considerations

Product:

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

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Packaging:

Disposal must be made in accordance with local waste management regulations. Contaminated packaging must be disposed of in the same manner as the product.

Non-contaminated packaging materials may be recycled. Contact your local service providers for further information.

14. Transport information

The product is not subject to transport regulations.

15. Regulations

Reference is made to the restrictions of employment specified in the Youth Employment Act and the Maternity Protection Act.

Substance of very high concern (SVHC) according (EC) 1907/2006 (REACH), Article 57: N-Methyl-2-pyrrolidone (CAS 872-50-4), part of TMB Substrate

16. Other information

Full text to the H-Sentences according CLP mentioned in heading 2:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H360D May damage the unborn child.

The product is for research use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Eagle Biosciences shall not be held liable for any damage resulting from handling or from contact with the above product.