

# SAFETY DATA SHEET

For Research Use only in the US and Canada. Not for use in diagnostic procedures.

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# M30 Apoptosense® ELISA

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 PRODUCT IDENTIFIER** M30 Apoptosense® ELISA

Item number 10011

1.2 RELEVANT IDENTIFIED USES OF THE

SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

The ELISA kits are medical devices and are not covered by the CLP-regulation; EU 1272/2008 (Classification & Labelling of Chemical Products).

However, relevant information of the products is provided in this safety data

sheet.

1.3 DETAILS OF THE SUPPLIER OF THE

SAFETY DATA SHEET

VLVbio AB

Hästholmsvägen 32 131 30 Nacka

Sweden

Phone +46 (0)8 122 053 00, Email: <a href="mailto:info@vlvbio.com">info@vlvbio.com</a>; <a href="mailto:www.vlvbio.com">www.vlvbio.com</a>; <a href="mailto:www.vlvbio.com">www.vlvbio.com</a>;

For questions regarding the safety data sheet, please contact:

info@vlvbio.com

1.4 EMERGENCY TELEPHONE NUMBER National Poisons Information Centre

General public: Call (01) 809 2166, 8am to 10 pm, 7 days a week

# SECTION 2. HAZARDS IDENTIFICATION

# 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

### **Health hazards:**

The component 6 (Stop solution) is classified as hazardous to health according to Regulation (EC) No 1272/2008.

Causes skin irritation (Skin Irrit. 2; H315).

Causes serious eye irritation (Eye Irrit. 2; H319).

The components 1-5 (M30 HRP Conjugate, M30 Conjugate Dilution Buffer, Standard solutions A- G, M30 Control Low and M30 Control High and TMB Substrate) are not classified as hazardous to health according to Regulation (EC) No 1272/2008.

# **Environmental hazards**

None of the components in M30 Apoptosense ELISA kit are classified as hazardous to the environment.

# **Physical hazards**

None of the components in M30 Apoptosense ELISA kit are classified for physical hazards.

# 2.2 LABEL ELEMENTS (only applies to the component 6 - Stop solution)

# **Hazard Pictograms**



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### Signal word

WARNING

Contains: Sulphuric acid.

### **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

# **Precautionary statements**

P280 Wear protective gloves/eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water.

P305 +P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

P338 to do. Continue rinsing.

# Other labelling

EUH208 - Contains Methyl-4-isothiazolin-3-one. May produce an allergic reaction.

The labelling is recommended on the following kits: M30 HRP Conjugate, M30 Conjugate Dilution Buffer, Standard A-G and M30 Control Low and M30 Control High.

# Other regulations

-

# Other information

The product does not contain any SVHC-substances (= Substance of Very High Concern)  $\geq$  0,1% from the candidate list of EU.

The components do not contain any substances which fulfills the criteria for PBT and vPvB according to annex XIII to the regulation (EG) nr 1907/2006 (REACH).

No substances have been identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations  $\geq$  0.1% (w/w).

# 2.3 OTHER HAZARDS

No other hazards are related to the product.



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#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS** 3.1 **SUBSTANCES** 3.2 **MIXTURE** Description of relevant components of the kit. Medical device product - ELISA kit for Research Use Only. Separate kit-**Substance** EC No. CAS No. **REACH** Classification Conc. component No. <sup>2</sup> (CLP) 1 w/w % 5-Chloro-2-H300<sup>b</sup> 247-500-7 26172-55-4 Acute Tox. 2 methyl-4-H310<sup>b</sup> Acute Tox. 2 isothiazolin-3-Acute Tox. 2 H330<sup>b</sup> ≥ 0.00055 -H314<sup>b</sup> Skin Corr. 1B one, 0.00063 Skin Sens. 1 H317<sup>b</sup> Eye Dam. 1 H318<sup>b</sup> 1. H400<sup>b</sup> Aquatic Acute 1 M30 HRP Methyl-4-220-239-6 2682-20-4 Acute Tox. 3 H301 a Conjugate isothiazolin-3-H311<sup>a</sup> Acute Tox. 3 one Skin Corr. 1B H314<sup>a</sup> Eye Dam. 1 H318<sup>a</sup> ≥ 0.00015 -Skin Sens. 1A H317<sup>a</sup> 0.00023 Acute Tox. 2 H330<sup>a</sup> Aquatic Acute 1 H400<sup>a</sup> M: 10 Aquatic Chronic 1 H410 a 2. 5-Chloro-2-247-500-7 26172-55-4 -See classification M30 HRP methyl-4-Conjugate M30 ≥ 0.0017 isothiazolin-3-Conjugate 0.0019 one, **Dilution Buffer** Methyl-4-220-239-6 2682-20-4 ≥ 0.00045 isothiazolin-3-0.00068 one 5-Chloro-2-247-500-7 26172-55-4 See classification M30 HRP methyl-4-Conjugate ≥ 0.002-3. isothiazolin-3-0.0025 one, Standard A, B, C, D, E, F 220-239-6 2682-20-4 and G Methyl-4-≥ 0.0006 isothiazolin-3-0.0009

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	Tartrazin	217-699-5	1934-21-0	01- 2120116 875-52- xxxx	0.01	Skin Sens. 1	H317 <sup>c</sup>
4. M30 Control	5-Chloro-2- methyl-4- isothiazolin-3- one,	247-500-7	26172-55-4	-	≥ 0.002 – 0.0025	See classification Mic Conjugate	30 HRP
Low M30	Methyl-4- isothiazolin-3- one	220-239-6	2682-20-4	-	≥ 0.0006 – 0.0009		
Control High	Tartrazin	217-699-5	1934-21-0	01- 2120116 875-52- xxxx	0.01	Skin Sens. 1	H317 <sup>c</sup>
5. TMB Substrate	3,3',5,5' Tetramethyl- benzidin	259-364-6	54827-17-7	-	≤ 0.05	Skin Irrit. 2 Eye Irrit. 2 STOT SE 3	H315 <sup>b, c</sup> H319 <sup>b, c</sup> H335 <sup>b, c</sup>
6. Stop solution	*Sulphuric acid	231-639-5	7664-93-9	01- 2119458 838-20- xxxx	5.5	Skin Corr. 1A	H314ª

- a) Harmonized classification according to Annex VI, part 3, table 3.1 and 3.2, Regulation (EC) No 1272/2008 (CLP).
- b) Classification according to REACH registration.
- c) Classification according to the manufacturer.
- d) Exposure limits according to National regulations (Great Britain EH40, Workplace exposure limits).
- \* Sulphuric acid is included in the Stop solution to 5.5 %, why the classification H314 of the mixture is not applicable.

Other information: The product kit also contains: M5 Coated Microstrips, Wash Tablet and Sealing Tape.

For a full text of H- phrases: See Section 16

# **SECTION 4. FIRST AID MEASURES**

# 4.1 DESCRIPTION OF FIRST AID MEASURES

# Inhalation

Fresh air. If difficulties in breathing, get medical advice.

### Skin contact

Rinse with water. Consult a doctor if symptoms persist.

# Eye contact

After contact with eyes, flush cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Contact a doctor.



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### Ingestion

Flush mouth with plenty of water (do not swallow), drink a couple of glasses of water. Do not induce vomiting. Consult a doctor if more than a small amount has been swallowed.

# Information to medical advice

Treat symptomatically.

# 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation: May cause light cough and transient irritations. Long-lasting and/or repeating exposure may cause allergy or asthma symptoms.

Skin Contact: Causing transient redness and irritations.

Eye Contact: Causes redness, light pain and transient irritation.

Ingestion: Smaller amounts are not expected to provide any acute or delayed symptoms.

Other:

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### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Eye wash should be available at the working place.

# **SECTION 5. FIREFIGHTING MEASURES**

# 5.1 EXTINGUISHING MEDIA

Suitable extinguishing media are powder, foam, carbon dioxide or water spray. No special extinguishing media needed. Use the same extinguishing media as recommended for the surroundings. Do not use direct water jet.

# 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

In case of fire, toxic and corrosive fumes such as oxides of carbon, sulphur oxides or other combustion products may develop.

### 5.3 ADVICE FOR FIREFIGHTERS

Precautions according to the standard procedure for chemical fires.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

# 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Ensure adequate ventilation. Wear gloves and eye protection if splashing, or direct contact. When large spills, contact the fire department.

# 6.2 ENVIRONMENTAL PRECAUTIONS

Avoid discharge of large amounts into the sewer.

# 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP



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Absorb spillages with suitable inert absorbent material such as sand or active clay. Collect the spill and treat as hazardous waste.

Collected and treated as hazardous waste.

Rinse away residues with plenty of water.

### 6.4 REFERENCE TO OTHER SECTIONS

See Section 8 for Exposure controls / personal protection and Section 13 for disposal considerations.

### SECTION 7. HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid inhalation and direct contact with the product.

Do not eat, drink and smoke when handling the product. Normal hand hygiene.

Ensure that contaminated clothing does not come into contact with foodstuffs etc. and is washed before re-use.

When handling the product, the Work Environment Authority AFS 2011:19, latest version through AFS 2019:9, "Chemical safety risks" must be followed. (Thermosets)

When handling, national regulations related to work environment must be followed.

# 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a cool dry place in a well-ventilated / not in direct sunlight / away from ignition sources. Do not freeze. Protect from light.

Vapor concentration on the floor and in low-lying spaces.

Must be stored according to national regulations for flammables.

## 7.3 SPECIFIC END USE

See Section 1.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 CONTROL PARAMETERS

Exposure limits according to Directives 2000/39/EC (IOELV Directives).

Sulphuric acid (The mist is defined as the thoracic fraction): 0.05 mg/m³ (TWA 8h)

## Other information

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## 8.2 EXPOSURE CONTROLS

## Appropriate technical measures

Methods are designed to prevent direct contact.

Possibility to rinse eyes shall be available at place of work. Ensure adequate ventilation. In case of insufficient ventilation, mechanical ventilation with local exhaust ventilation (LEV) should be used.



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Personal protection

Eye/face protection: Protective glasses shall be used.

Skin protection: Protective gloves meeting the requirements of Standard EN 374 shall be used.

Recommended glove material: neoprene.

Respiratory protection: Not normally required. Other protection: Not normally required.

Thermal hazard. Not relevant.

**Environmental exposure controls** 

Avoid release to the environment.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Product description <sup>4</sup>

Physical state: Component 1-6 Liquid

Light red brown Component 1

Component 2 Blue Component 3 Yellow

Colour: Component 4 Colorless to light yellow

Component 5 Colorless Component 6 White Component 1-6 No smell 0°C Melting-point / freezing-point: (all components) 100 °C

Boiling point or initial boiling point and boiling range

(all components):

Odour

:Ha

Flammability: N.A Lower and upper explosion limit: N.A N.A Flash point: Auto-ignition temperature: N.A Decomposition temperature: N.A

Component 1 7.0 Component 2  $7.0 \pm 0.1$  $7.0 \pm 0.1$ Component 3-4  $3.55 \pm 0.20$ Component 5 Component 6 ≤ 1

Kinematic viscosity: N.A Solubility: Soluble

Partition coefficient n-octanol/water (log value): N.A Vapour pressure: N.A

Relative density (component 6) 1.03 g/cm<sup>3</sup> Particle characteristics: N.A

#### OTHER INFORMATION 9.2

Component 6: Can be corrosive to metals.3

# 9.2.1 INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES



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Not relevant.

### 9.2.2 OTHER SAFETY CHARACTERISTICS

Not relevant.

### **SECTION 10. STABILITY AND REACTIVITY**

### 10.1 REACTIVITY

May be corrosive to metals.4

# 10.2 CHEMICAL STABILITY

Stable until expiry date stated on label if stored under specified conditions. 4

# 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No hazardous reactions at normal usage and storage. 4

# 10.4 CONDITIONS TO AVOID

No data available.4

### 10.5 INCOMPATIBLE MATERIALS

None. 4

# 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

None. 4

# **SECTION 11. TOXICOLOGICAL INFORMATION**

The kit consists of several components whereas component 6 (stop solution) is hazardous for health.

# 11.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

Acute toxicity:Not classified as acutely toxic.Sulphuric acid3LC50 inhalation rat: 510 mg/L/2h

Skin corrosion/irritation:

Solution 6 is a skin irritant.

H315

Serious eye damage / irritation: H319

Solution 6 is irritating to the eyes.

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**Respiratory or skin sensitization:** Not classified as sensitising. Components 1-4 contain Methyl-4-isothiazolin-

**EUH208** 3-one in a small amount which may cause a skin sensitization and/or allergic

contact dermatitis at repeated exposure.

**Germ cell mutagenicity:** Not classified as mutagenic.

**Carcinogenicity:** Not considered to be carcinogenic.

**Reproductive toxicity:** Not classified as toxic to reproduction.

Specific organ toxicity-single exposure

Not considered to cause damage to organs after single exposure.

(STOT):



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Specific organ toxicity-repeated It is not considered to cause damage to organs after repeated exposure.

exposure (STOT):

**Aspiration Hazard:** Not considered an aspiration hazard.

Specific effects

None known.

# 11.2 INFORMATION ON OTHER HAZARDS

Endocrine disrupting properties: Not relevant.

# **SECTION 12. ECOLOGICAL INFORMATION**

The product is not classified as hazardous to the environment and is not expected to result in any negative environmental consequences but should be handled according to good industrial standards.

### 12.1 TOXICITY

The components are not hazardous to the environment.

Sulphuric acid <sup>3</sup>: LC<sub>50</sub> 96h: 42 mg/l (species: fish, Gambusia affinis).

EC<sub>50</sub> 24h: 29 mg/l (species: water flea, Daphnia magna).

# 12.2 PERSISTENCE AND DEGRADABILITY

No information available.

# 12.3 BIOACCUMULATIVE POTENTIAL

No information available.

# 12.4 MOBILITY IN SOIL

No information available.

# 12.5 RESULTS OF PBT AND vPvB ASSESSMENT

Based on available information, this mixture contains no substance that meets the PBT or vPvB criteria according to Annex XIII to Regulation (EC) No. 1907/2006 (REACH).

# 12.6 ENDOCRINE DISRUPTING PROPERTIES

No substances have been identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations  $\geq$  0.1% (w/w).

# 12.7 OTHER ADVERSE EFFECTS

None known.

### SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

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Classified as conventional waste, according to Commission Regulation (EU) No 1357/2014 on waste.

EWC-code: 07 05 01\* aqueous washing liquids and mother liquors, according to the European Waste Catalogue.

All disposal practices must be in accordance with local, regional, national and international regulations.

# **Packaging**

Packaging containing visible residues of hazardous substances is treated as product.

EWC- code: 15 01 10\* (Packaging containing residues of or contaminated by hazardous substances).

Well emptied packaging can be treated as conventional waste and be left for incineration (energy recovery).

Emptied and cleaned packaging can be treated as conventional waste and be left for recycling.

EWC- code: 15 01 01 (Paper and cardboard packaging) / 15 01 02 (Plastic packaging) / 15 01 04 (Metal packaging).

# **SECTION 14. TRANSPORT INFORMATION**

This product is not covered by the regulations for transportation of dangerous goods.

11113	product is not covered by the regulations for transportation of dangerous goods.				
		ADR/RID	ADN	IMDG	IATA /ICAO
14.1	UN-number or ID number	Not relevant	Not relevant	Not relevant	Not relevant
14.2	UN proper shipping name	Not relevant	Not relevant	Not relevant	Not relevant
14.3	Transport hazard class(es)	Not relevant	Not relevant	Not relevant	Not relevant
14.4	Packing group	Not relevant	Not relevant	Not relevant	Not relevant
14.5	Environmental hazards	No	No	No	No

### 14.6 SPECIAL PRECAUTIONS FOR USER

Tunnel restriction code: N.A

EmS code: N.A

Classification code: N.A

Limited amount: N.A

Reduced amount: N.A

# 14.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

Not relevant.



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### SECTION 15. REGULATORY INFORMATION

# 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

This safety data sheet is prepared in accordance with the EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH) and Commission Regulation (EU) 2020/878 of 18 June 2020 amending the European Parliament and Council Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH).

# Regulations

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substance and mixtures (CLP).

Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste.

European Waste Catalogue (EWC-codes)

**GESTIS International Limit Values** 

Exposure limits according to National regulations (Great Britain EH40, Workplace exposure limits).

# **National legislation**

2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 to 2021

Europaparlamentets och Rådets förordning (EG) nr 1272/2008, (CLP) Kommissionens förordning (EU) nr 1357/2014, (Avfall). Avfallsförordningen SFS 2011:927.

# Other information

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# 15.2 CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

# SECTION 16. OTHER INFORMATION

## Classification procedure

Test data is prioritized when classifying the product. When no test data are available, the classification rules in regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP) been used.

# Hazard statements in Section 3

H300 Fatal if swallowed.

H319 Causes serious eye irritation.



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H310	Fatal in contact with skin.	H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.	H318	Causes serious eye damage.
H311	Toxic in contact with skin.	H335	May cause respiratory irritation.
H330	Fatal if inhaled.	H400	Very toxic to aquatic life.
H314	Causes severe skin burns and eye damage	H410	Very toxic to aquatic life with long lasting effects.
H315	Causes skin irritation		

### **Abbreviations**

ADN International Carriage of Dangerous Goods by Inland Waterways

ADR International Carriage of Dangerous Goods by Road

BCF Bio Concentration Factor

EC<sub>50</sub> Effective Concentration (concentration that gives response in 50 % of test subjects)

ECHA European Chemical Agency
EmS Emergency Schedule Information

IARC International Agency for Research on Cancer

IC<sub>50</sub> Inhibitory Concentration (concentration that shows inhibition in 50 % of the test subjects)

IATA/IC IATA Dangerous goods regulation / ICAO Technical Instructions for the Safe Transport of Dangerous Goods

AO by Air

IMDG International Maritime Dangerous Goods Code KTV Korttidsvärde (= en typ av hygieniskt gränsvärde)

LC50 Lethal Concentration (concentration causing the death of 50 % of a group of test animals)

LD<sub>50</sub> Lethal Dose (dose causing the death of 50 % of a group of test animals)

LDLO Lethal Dose Low (= Lowest dose of a toxic material at which the death of the exposed test animal occurs.

 $Log \ P_{ow} \quad \ \ Partition \ coefficient \ octanol \ - \ water$ 

n.a. not availableN/A not applicable

NGV Nivågränsvärde (= en typ av hygieniskt gränsvärde)

PBT Persistent Bio-accumulative and Toxic

RID International Carriage of Dangerous Goods by Rail

STEL Short Term Exposure Limit SVHC Substance of Very High Concern

TWA Time-weighted average

vPvB very Persistent and very Bioaccumulative

### Advice about education

The user of this product should have training that is relevant to the properties of the product and relevant use.

### References

- 1) Classification & Labelling Inventory Database, ECHA.
- 2) Registered substances, ECHA.
- 3) Kemiska Ämnen online, Prevent.
- 4) Information from the supplier: SDS VLVBio M30 Apoptosense® ELISA, product number: 10011, date of issue: 2018/09/04

# Version description

This safety data sheet has been revised on account of updated template according to annex II in REACH regulation (1907/2006).

The safety data sheet is dated 11/03/2024 and it replaces version dated 10/04/2019.