

## MATERIAL SAFETY DATA SHEET

In compliance with 91/155/EEC and (EC) 1272/2008 (CLP)

1. INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY		
<b>PRODUCT NAME:</b>	<b>M30 CytoDeath™ ELISA</b>	
<b>PRODUCT NUMBER:</b>	<b>10900</b>	
<b>MANUFACTURER:</b>	<b>Vivalavida AB</b> Löfströms allé 5A SE-172 66 Sundbyberg Sweden	Phone +46 (0)8 122 053 00 Email: <a href="mailto:info@vlvbio.com">info@vlvbio.com</a> Website: <a href="http://www.vlvbio.com">www.vlvbio.com</a>

2. COMPOSITION/INFORMATION ON INGREDIENTS					
Component number	Component Name	Hazard	Classification (pure form) according to regulations:		Concentration
			91/155/EEC	(EC) 1272/2008	
1 <sup>1)</sup>	M6 Coated Microstrips	N/A	N/A	N/A	N/A
2 <sup>1)</sup>	M30 CytoDeath Conjugate	Kathon CG <sup>2)</sup>	T; R23/24/25; C; R34, R43; N; R50-53	H331, H311, H301, H314, H315, H317, H400, H410	0.05 %
3 <sup>1)</sup>	M30 CytoDeath Conjugate Dilution Buffer	Kathon CG <sup>2)</sup>	See component 2	See component 2	0.15 %
4 <sup>1)</sup>	M30 CytoDeath Standard Zero      0 U/L Standard Low        250 U/L Standard Medium    1 000 U/L Standard High       3 000 U/L	Kathon CG <sup>2)</sup> Tartrazine <sup>3)</sup>	See component 2 Xn; S; R42/43	See component 2 H334; H317	0.05 % 0.01 %
5	TMB Substrate	3,3',5,5' Tetramethyl- benzidine	N/A	N/A	≤ 0.05 %
6	Stop Solution	Sulphuric acid <sup>4)</sup>	C, R35	H314	5.5 % (1.0 M)
7	Wash Tablet	N/A	N/A	N/A	N/A
8	Sealing Tape	N/A	N/A	N/A	N/A

<sup>1)</sup> Components 1–4 contain material of animal origin.

<sup>2)</sup> Kathon CG: Hazardous components are 5-chloro-2 methyl-2H-isothiazol-3-one (EG No. 247-500-7) and 2-methyl-2H isothiazol-3-one (EG No. 220-239-6) as a mixture, CAS No. 55965-84-9

<sup>3)</sup> Tartrazine: EG No. 217-699-5, CAS No. 1934-21-0

<sup>4)</sup> Sulphuric acid: EG No. 231-639-5, CAS No. 7664-93-9

3. HAZARDS IDENTIFICATION
<p><b>Kathon CG:</b> 0.06 % ≤ conc. &lt; 0.25 %: Xi; R36/38-43. Irritating to eyes and skin. May cause sensitisation by skin contact. (CLP: Skin Irrit. 2, H315: Causes skin irritation. Eye Irrit. 2, H319: Causes serious eye irritation. Skin Sens.1, H317: May cause an allergic skin reaction).</p> <p><b>Material of animal origin:</b> Should be considered as potentially infectious.</p> <p><b>Sulphuric acid:</b> 5 % ≤ conc. &lt; 15 %: Xi; R36/38. Irritating to eyes and skin. (CLP: Skin Irrit. 2, H315: Causes skin irritation. Eye Irrit. 2, H319: Causes serious eye irritation).</p> <p><b>3,3',5,5' Tetramethylbenzidine:</b> R36/37/38. Irritating to eyes, respiratory system and skin. (CLP: Skin Irrit. 2, H315: Causes skin irritation. Eye Irrit. 2, H319: Causes serious eye irritation).</p> <p><b>Tartrazine:</b> Xn; R42/43. May cause sensitisation by inhalation and skin contact symptoms or breathing difficulties if inhaled. (CLP: Skin Irrit, H334: May cause allergy or asthma. Skin Sens. 1, H317: May cause an allergic skin reaction).</p>

**4. FIRST AID MEASURES**

<b>Inhalation:</b>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical advice if needed. <b>P 261:</b> Avoid breathing dust/fume/gas/mist/vapours/spray.
<b>Ingestion:</b>	Flush mouth with plenty of water (do not swallow). Drink large amounts of water. Never give anything to drink to an unconscious person. Seek medical advice if needed.
<b>Eye contact:</b>	<b>S25:</b> Avoid contact with eyes. <b>S26:</b> In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses if any. <b>P305 + P351 + P338:</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <b>P337 + P313:</b> If eye irritation persists: Get medical advice/attention.
<b>Skin contact:</b>	<b>S24:</b> Avoid contact with skin. <b>S27/28:</b> After contact with skin take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. <b>P302 + P352:</b> IF ON SKIN: Wash with plenty of water and soap. <b>P332 + P313:</b> If skin irritation occurs: Get medical advice/attention. <b>P362:</b> Take off contaminated clothing and wash before reuse. <b>P264:</b> Wash with soap and plenty of water after handling.
<b>Others:</b>	<b>S45:</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). <b>P321:</b> Specific treatment (see content on the label).

**5. FIRE-FIGHTING MEASURES**

<b>Suitable extinguish media:</b>	Use fire extinguishing media appropriate for site conditions, preferably water spray, carbon dioxide, powder or foam.
<b>Special exposure hazards:</b>	No fire and explosion hazards. No generation of hazardous or toxic gases in dangerous quantities.
<b>Protective equipment:</b>	Self-contained breathing apparatus and protective clothing to avoid all contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions:</b>	<b>S36/37/38:</b> Wear suitable protective clothing, gloves and eye/face protection.
<b>Environmental precautions:</b>	Prevent soil and water pollution. Dispose of according to section 13.
<b>Methods for cleaning up:</b>	Absorb spills with absorbent material, dispose of according to section 13.

**7. HANDLING AND STORAGE**

<b>Handling:</b>	Ensure good ventilation. Direct physical contact with all components in this product should be avoided. Avoid ingestion.
<b>Storage:</b>	Store in well closed original container at 2–8 °C. Do not freeze. Protect from light (components 2 and 5).

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Eye, hand and skin protection:</b>	
<b>S36/37/39</b>	Wear suitable protective clothing, gloves and eye/face protection.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.
<b>P272</b>	Contaminated working clothes should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES								
Component number	1	2	3	4	5	6	7	8
Physical state	Solid (Microstrips)	Liquid	Liquid	Liquid	Liquid	Liquid	Solid (tablet)	Solid (tape)
Colour	Colourless	Colourless	Green	Yellow	Colourless to light yellow	Colourless	White	Colourless
Odour	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless	Odourless
pH	N/A	7.0 ± 1	7.0 ± 1	7.0 ± 1	3.55 ± 0.20	≤ 1	N/A	N/A
Solubility in water	N/A	Soluble	Soluble	Soluble	Soluble	Soluble	Soluble	N/A

10. STABILITY AND REACTIVITY	
<b>Stability:</b>	Until expiry date stated on label if stored under specified conditions.
<b>Reactivity/Hazardous decomposition products:</b>	None.
<b>Conditions/materials to avoid:</b>	None.

11. TOXICOLOGICAL INFORMATION	
<u>Kit components 2–4</u>	
<b>Chronic and acute effects:</b>	The product is classified as a skin sensitizer due to the content of Kathon CG. Does not contain substances with a chronic effect (e.g. carcinogenicity, mutagenicity, toxicity to reproduction).
<u>Kit component 5</u>	
<b>Chronic and acute effects:</b>	Caustic effect on eyes and skin. Swallowing will lead to a strong caustic effect on the mouth and throat. Does not contain substances with a chronic effect (e.g. carcinogenicity, mutagenicity, toxicity to reproduction).
<u>Kit component 6</u>	
<b>Chronic and acute effects:</b>	Irritating to eyes and skin. Does not contain substances with a chronic effect (e.g. carcinogenicity, mutagenicity, toxicity to reproduction).
<u>Kit components 1, 7 and 8</u>	
<b>Chronic and acute effects:</b>	Does not contain substances with a chronic effect (e.g. carcinogenicity, mutagenicity, toxicity to reproduction).

12. ECOLOGICAL INFORMATION	
<b>Ecotoxicity:</b>	Toxic to fish and other aquatic organisms.
<b>Biodegradability:</b>	No information available.
<b>Mobility:</b>	No information available.

13. DISPOSAL CONSIDERATIONS	
All kit components and tested specimen should be considered as biohazardous/infectious and should be disposed of in accordance with federal, state and local environmental regulations.	

14. TRANSPORT INFORMATION	
No subject for transport regulations (RID/ADR, IMDG, IATA).	

15. REGULATORY INFORMATION AND CONSIDERATIONS	
The product has been labelled in accordance with EU directive 91/155/EEG and KIFS 1998:8 (Sweden).	

**16. OTHER INFORMATION**

All material of animal origin has been collected from healthy animals.

The information provided in this MSDS is to information and belief at the date of the publication the best of our knowledge.

Vivalavida AB shall not be held liable for any damage resulting from handling or contact with this product.

See Instruction for use for information and intended use of this product.

N/A = Not applicable or no information.

Revision 2010-10-26: Compliance with (EC) 1272/2008 (CLP) included.

Revision 2014-03-12: Vivalavida AB contact information

Revision 2014-05-21: New name Coated Microstrips