

# iLite® Assay Ready Cells containing cryoprotective medium from Amsbio

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

1.1 Product identifier

**Product name:** iLite® FGF21 Assay Ready Cells Lot BS 1272

**Product description** iLite Assay Ready Cells containing cryoprotective medium from Amsbio (cat no

11888)

**Product code** BM3071

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the product Laboratory chemicals. For research use only.

1.3 Details of the supplier of the safety data sheet

Company Svar Life Science AB Address Lundvägen 151

Zip code/Place SE-212 24 Malmö. Sweden

Telephone +46 40 53 76 00 Website www.svarlifescience.com E-mail info@svarlifescience.com

1.4 Emergency telephone number

**Emergency telephone** (Sweden) Acute: 112 - Ask for "Giftinformation". If less acute call: +46 010 4566700.

number Other countries: Please contact local emergency telephone number.

# **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance or mixture

Classification according to the Regulation (EC) No. 1272/2008 (CLP):

The mixture is not to be classified according to CLP.

The mixture is covered by Directive 2009/41/EC on the contained use of genetically modified micro-organisms and classified as a Class 1 Genetically Modified Microorganism.

The mixture is covered by Directive 2000/54/EC of 18 September 2000 on the protection of workers from risks related to exposure to biological agents at work.

#### 2.2 Label elements

None

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# 2.3 Other hazards

Other hazards which do not result in

classification

Contain Fetal Bovine serum, which is derived from cattle. The Certificate of Analysis for FBS show that the substance has been analyzed for Bovine Adenovirus, Bovine Parvovirus, Blue tongue Virus, Bovine Virus Diarrhea, Infectious Bovine Rhinotracheitis,

Parainfluenza 3, Rabies Virus, Reovirus, Bovine Respiratory Syncytial Virus, Vesicular Stomatitis Virus, Cytopathic agents and Hemadsorbing agents with a negative result. The FBS was collected in New Zealand. The serum was not collected from cattle born, raised, shipped through or slaughtered in countries where Bovine Spongiform

Encephalopathy is known to exist.

The products are considered to be biological agents in group 1 (ie. a biological agent that is unlikely to cause human infection). As a precaution, it is recommended that the work is carried out under measures similar to Group 2 in Council Directive 2000/54/EC.

Substance meets the criteria for PBT/ vPvB under PBT/ vPvB: No Regulation EC No. 1907/2006, appendix XIII

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### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2 Mixtures

Assay Ready Cells suspended in cryoprotective medium from Amsbio containing the following substances:

Product/ingredient name **EC-number** CAS-**REACH** Conc. Classification

Regulation (EC) No. 1272/2008 number registration (%w/w)

number [CLP] Fetal Bovine Serum 37.5-75 None

(Heat inactivated FBS)

Dimethyl Sulfoxid (DMSO) 200-664-3 67-68-5 5-20 None

## **SECTION 4: FIRST-AID MEASURES**

# 4.1 Description of first aid measures

#### On suspicion of possible infection from biological agents – seek medical advice!

Inhalation: Move to fresh air. Keep at rest and under surveillance. If needed: seek medical advice. Skin contact: Remove contaminated clothing at once. Flush skin and wash thoroughly with soap and

Eye contact: Keep eyelids well apart. Rinse with water for a couple of minutes, remember to remove

contact lenses if any. If irritation persists: Seek medical advice.

Rinse mouth and drink plenty of water. If needed or if larger amounts has been Ingestion

swallowed: Seek medical advice.

#### 4.2 Most important symptoms and effects, both acute and delayed

Skin contact: May cause irritation of skin. Eve contact: May cause irritation of eves.

Inhalation Prolonged or frequent exposure to vapours of volatile organic compounds may result in

damage on liver, kidneys, blood or central nervous system (including brain damage).

#### 4.3 Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to a physician or emergency ward

## **SECTION 5: FIREFIGHTING MEASURES**

## 5.1 Extinguishing media

Suitable extinguishing Use water spray, carbon dioxide, dry chemical or foam.

media Unsuitable Wateriet

extinguishing media

## 5.2 Special hazards arising from the substance or mixture

Hazards from the None

substance or mixture

Hazardous thermal Decomposition products may include the following materials: oxides of carbon and

decomposition sulphur.

products

5.3 Advice for firefighters

Special protective Promptly isolate the scene by removing all persons from the vicinity of the incident if actions for fire-fighters there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Special protective equipment for fire-

fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European

standard EN 469 will provide a basic level of protection for chemical incidents.

**Further information** Not applicable

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protective equipment – see section 8. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. The employees or the company's occupational health and safety organization must be informed immediately of any accident or incident that may have resulted in the release of biological agents, which may cause disease in humans. If specialized clothing is required to deal with the spillage, take note of any information

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional

information on hygiene measures.

# 6.2 Environmental precautions

Do not empty into drains – see section 12. Inform appropriate authorities in accordance with local regulations.

#### 6.3 Methods and material for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Wipe up spillage etc. with paper

towels. Use wet towels to finish cleaning up. Follow the laboratory's general

decontamination procedure for infectious waste. Flush area of decontamination with

water. Further handling of spillage - see section 13.

Large spill Stop leak if without risk. Move containers from spill area. Prevent entry into sewers,

water courses, basements or confined areas. Contain and collect spillage with absorbent

material as vermiculite. Further handling of spillage – see section 13.

#### 6.4 Reference to other sections

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: HANDLING AND STORAGE**

# 7.1 Precautions for safe handling

**Protective measures** 

Before use, a workplace assessment of the safety and health conditions at the working place must be carried out according to the general specifications mentioned in the EU Directive 2000/54/EC on biological agents and work. Work must be planned, organized and carried out so that the influence of biological agents is avoided as much as possible. Use laboratory facilities, which generally qualify for handling of biological agents. No tool or used material should after end use be placed on tables or similar but collected immediately in special sealed containers. Recycling of tools should only take place after proper disinfecting and purification. If appliances are contaminated, washing must be made with appropriate disinfectant before further use.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled. Avoid contact with skin, eyes and clothing. Always wash hands with soap and water after completing work, and when leaving the laboratory (e.g. before going to the toilet and at the end of the workday). Do not pipette by mouth pipetting. See also Section 8 for additional information on hygiene measures.

# 7.2 Conditions for safe storage, including any incompatibilities

**Storage:** Upon receipt confirm that adequate dry-ice is present and the cells are frozen.

Immediately transfer to -80 °C (do not store at any other temperature). Cells should be

used within 30 min of thawing and should be diluted immediately after thawing.

Further information: Not applicable

#### 7.3 Specific end use(s)

Laboratory chemicals for research use only.

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

European Union: None

UK: None

Sweden: NGV **KGV** Comments

 $50 \text{ ppm} = 150 \text{ g/cm}^3$  $150 \text{ ppm} = 500 \text{ g/cm}^3$ H,V H: Skin permeable V: Indicative short-term exposure limit

Germany, MAK: 50 ppm = 160 mg/m<sup>3</sup> Denmark: 50 ppm = 160 mg/m<sup>3</sup>

Finland: 50 ppm (8h)

Austria: 50 ppm = 160 mg/m<sup>3</sup> Switzerland: 50 ppm = 160 mg/m<sup>3</sup>

Recommended Not relevant

monitoring procedure

**Derived effect levels** 

Product/ingredient Value **Population Effects Type Exposure** 

name

**Predicted effect** concentrations

Not available

**PNEC Summary** Not available - No CSR

8.2 Exposure controls

Appropriate engineering

controls

Sufficient ventilation.

Wash hands thoroughly after handling chemical products, before eating, drinking, **Hygiene measures** 

smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

Respiratory protection Not relevant during normal condition.

Eye/face protection Use safety glasses (according to EN166) when there is risk of splashes.

Hand protection Wear protective gloves (according to EN374) of butyl rubber or nitrile rubber.

**Body protection** Wear suitable protective clothing.

**Environmental exposure** 

controls

Not applicable



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

9.1 Information on basic physical and chemical properties

5.1 Information on basic physical and chem	
Physical state	Liquid
Colour	Clear colorless
Odour	Characteristic
Odour threshold	n.d
Solubility(ies)	Dissolves in water
pH (product)	7-9
Melting point/freezing point	n.d
Initial boiling point and boiling range	n.d
Flash point	n.d
Evaporation rate (butyl acetate = 1)	n.d
Flammability (solid, gas)	n.a
Upper/lower flammability or explosive limits	n.d
Combustion rate	n.d
Upper/lower flammability or explosive limits	n.d
Vapour pressure	n.d
(at 20°C)	
Vapour density	n.d
Relative density (Water = 1)	n.d
Partition coefficient:	n.d
n-octanol/water	
Autoignition temperature	n.d
Decomposition	n.d
temperature	
Viscosity	n.d
Explosive properties	n.d
Oxidising properties	n.d

n.d = not determined n.a = not applicable

# 9.2 Other information

Not applicable

# **SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity** No available information

**10.2 Chemical stability** Stabile at recommended storage conditions – see section 7.

**10.3 Possibility of hazardous reactions** No available information.

**10.4 Condition to avoid** No available information.

**10.5 Incompatible materials** No available information.

10.6 Hazardous decomposition products When heated to high temperatures (decomposition) toxic fumes

are emitted: Oxides of carbon and sulphur.



# **SECTION 11: TOXICOLOGICAL INFORMATION**

In addition to the hazardous properties mentioned below, the risk of infection from the biological agents present in the product must also be taken into account.

11.1 Information on toxicological effects

Hazard class	Data (DMSO)	Test	Reference
Acute toxicity:			
Inhalation	LD <sub>50</sub> (rat) > 2 mg/l/4h	No information	IUCLID
Dermal	LD <sub>Lo</sub> (rat) > 40000 mg/kg	No information	IUCLID
Oral	$LD_{50}$ (rat) = 14500 mg/kg	No information	IUCLID
Corrosion/irritation	Mild eye and skin irritation, rabbit	OECD 404, EU	ECHA
		Method B.5	
Sensitization	No skin sensitization, guinea pig	Buehler	IUCLID
CMR	No mutagenicity, carcinogenicity, genotoxicity	Several	Merck/IUCLID

# **Acute toxicity**

Assessment for other reagents than DMSO: No data available.

#### Irritation/Corrosion

Assessment for other reagents than DMSO: No data available.

# Sensitization by inhalation/skin contact

Assessment for other reagents than DMSO: No data available.

#### Germ cell mutagenicity

Assessment for other reagents than DMSO: The chemical structure of the different reagents doesn't indicate any mutagenic effects.

# Carcinogenicity

Assessment for other reagents than DMSO: The chemical structure of the different reagents doesn't indicate any carcinogenic effects.

#### Reproduction toxicity

Assessment for other reagents than DMSO: The chemical structure of the different reagents doesn't indicate any reproduction toxic effects.

#### **Developmental toxicity**

Assessment for other reagents than DMSO: The chemical structure of the different reagents doesn't indicate any teratogenic effects.

# Specific target organ toxicity (single exposure)

STOT assessment single dose toxicity: No data available.

# Repeated dose toxicity and specific organ toxicity (repeated exposure)

Prolonged or frequent exposure to vapours of volatile organic compounds may result in damage on liver, kidneys, blood or central nervous system (including brain damage).



#### **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1 Toxicity

12.1.1 Acute toxicity in the aquatic environment for DMSO

TestValue/unit (mg/l)Test methodExp. time (h)SpeciesFish LC5032000Static (FW)96Oncorhyno

Fish  $LC_{50}$  32000 Static (FW) 96 Oncorhynchus mykiss Daphnia  $EC_{50}$  7000 No info. (FW) 24 Daphnia sp.

Algae EC<sub>50</sub> 12350-25500 No info. (SW) 96 Skeletonema costatum

#### 12.1.2 Acute toxicity in the aquatic environment other reagents than DMSO

No data available.

#### 12.1.3 Ecotoxicity

No data available.

#### 12.2 Persistence and degradability

Conclusion/Summary DMSO is not readily degradable (3.1% after 14 days in OECD 301C test).

## 12.3 Bioaccumulative potential

**Conclusion/Summary** DMSO: Log K<sub>ow</sub> -1,35 – No significant bioaccumulation.

# 12.4 Mobility in soil

Soil/water partition

DMSO: K<sub>oc</sub> (calculated) < 10 – Very high mobility expected in soil environments.

coefficient (KOC)

Mobility No available data

# 12.5 Results of PBT and vPvB assessment

PBT The substance is not considered PBT according to criteria in Annex XIIII.

PPVB The substance is not considered vPvB according to criteria in Annex XIIII.

#### 12.6 Other adverse effects

None known

# **SECTION 13: DISPOSAL CONSIDERATIONS**

# 13.1 Waste treatment methods

Method of disposal Biological agents are considered hazardous waste. Disposal should be according to

local, state or national legislation.

Note! Waste containers containing biological material must be labeled with: (black

symbol on yellow background).

The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way by incineration. Within the present knowledge of the supplier, this product is regarded as

Hazardous waste Within the present knowledge of the supplier, this product hazardous waste, as defined by EU Directive 2008/98/EC.

**European Waste Catalogue (EWC)** 

EWC Waste Code	Type of waste	
18 01 03	Wastes whose collection and disposal is subject to special	
	requirements in order to prevent infection	
15 02 02	Absorbent material containing residues of or contaminated by dangerous substances	

**Packaging** 

Method of disposal	Incineration.
Special precautions	None.

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#### **SECTION 14: TRANSPORT INFORMATION**

# Product is not classified as dangerous goods.

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number				
14.2 UN proper shipping name				
14.3 Transport hazard class(es)				
14.4 Packing Group				
14.5 Environmental hazards				
14.6 Special precautions for user	No	No	No	No
14.7 Transport in bulk according	Not applicable	Not applicable	Not applicable	Not applicable
to Annex II of MARPOL and the				
IBC Code				
Additional information	Waste containing used biological agents may be considered as			
	dangerous goods;			
	UN 3291, CLINICAL WASTE, UNSPECIFIED; N.O.S., or (BIO)			
	MEDICAL WASTE N.O.S. or REGULATED MEDICAL WASTE, N.O.S.			
	Class 6.2 Packi	ng Group II		

# **SECTION 15: REGULATORY INFORMATION**

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

Must not be used by persons under 18 years of age (Directive 94/33/EC).

The employer shall assess the working conditions and, if there is any risk to the safety or health and any effects on the pregnancy or breastfeeding of workers, take the necessary measures to adjust the working conditions (Directive 92/85/EEC)

The mixture is covered by:

Directive 2009/41/EC on the contained use of genetically modified micro-organisms

Directive 2000/54/EC - biological agents at work

EU Regulation (EC) No. 1272/2008 (CLP): Not classified.

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV – List of substances subject to authorization

Substances of very high concern

None of the components are listed.

# Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable

# 15.2 Chemical Safety Assessment

No CSR.

## Other information

Tariff Code harmonized	Not applicable
system	
The EU Seveso Directive	Not applicable

# International regulations

Chemical Weapons Convention List	ical Weapons Convention Chemical Weapons Convention List Chemical Weapons Convention	
Schedule I Chemicals	Schedule II Chemicals	Schedule III Chemicals
Not regulated	Not regulated	Not regulated





#### **SECTION 16: OTHER INFORMATION**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II.

#### LIST OF HAZARD STATEMENTS MENTIONED UNDER SECTION 3: None

#### **Abbreviations:**

CMR = Carcinogenicy, Mutagenicity, and Reproduction toxicity

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

EC50 - Half maximal effective concentration

FW = Fresh Water (Färskvatten)

KGV = Korttidsvärde (Swedish for short term exposure limit)

LC50 = Lethal Concentration 50 %

LD50 = Lethal Dose 50 %

MAK = Maximale Arbeitsplatzkonzentrationen (German for maximum workplace concentration)

NGV = Nivågränsvärde (Swedish for exposure limit)

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

#### Literature:

Merck (Safety Data Sheet)

IUCLID = International Uniform ChemicaL Information Database

ECHA = European Chemicals Agency

#### Other information

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

## Revisions

Version	Valid from (date)	Changes
1.0	{{Effective Date}}	New document