

# iLite<sup>®</sup> Assay Ready Cells containing cryoprotective medium from Amsbio

BM4002. BM4021, BM4055, BM4061, BM4080

	SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/
	UNDERTAKING
1	1.4. Dreduct identifier

1.1 Product identifier Product name:	iLite <sup>®</sup> IL-2 Assay Ready Cells iLite <sup>®</sup> VEGF Assay Ready Cells iLite <sup>®</sup> G-CSF Assay Ready Cells iLite <sup>®</sup> IL-6 Assay Ready Cells iLite <sup>®</sup> hCG Assay Ready Cells
Product description	iLite Assay Ready Cells containing cryoprotective medium from Amsbio (cat no 11888)
Product code	BM4002, BM4021, BM4055, BM4061, BM4080

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

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

# 2.3 Other hazards

not result in classification



Other hazards which do 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.

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

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

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

No	Product/ingredient name	EC-number	CAS- number	REACH registration number	Čonc. (%w/w)	Classification Regulation (EC) No. 1272/2008 [CLP]
	Fetal Bovine Serum (Heat inactivated FBS)				37.5-75	None
	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 water.
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.
Ingestion	Rinse mouth and drink plenty of water. If needed or if larger amounts has been swallowed: Seek medical advice.

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

Skin contact:	May cause irritation of skin.
Eye contact:	May cause irritation of eyes.
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 medi	a
Suitable extinguishing media	Use water spray, carbon dioxide, dry chemical or foam.
Unsuitable extinguishing media	Waterjet
5.2 Special hazards aris Hazards from the	sing from the substance or mixture
substance or mixture	None
Hazardous thermal	Decomposition products may include the following materials: oxides of carbon and
decomposition products	sulphur.
5.3 Advice for firefighters	
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if 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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LABEL-DOC-0448 1.0



# SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures					
For non-emergency	Use personal protective equipment – see section 8. No action shall be taken involving				
personnel	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.				
For emergency	If specialized clothing is required to deal with the spillage, take note of any information in				
responders	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 Advice on general occupational hygiene	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. 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	3	KGV		<u>nments</u>		
	50 ppm = 150 H: Skin perme						
	n. Skin perme	able	ble V: Indicative short-term exposure limit				
Denmark: 50 Finland: 50 p Austria: 50 p	AK: 50 ppm = 16 ppm = 160 mg/r pm (8h) pm = 160 mg/m <sup>3</sup> 50 ppm = 160 m	m <sup>3</sup>					
Recommer monitoring	nded   procedure	Not rele	vant				
Derived eff	ect levels						
Product/ing	gredient	Туре	Exposure	Value	Population	Effects	
name							
Predicted e	ffect	Not available					
	concentrations						
PNEC Sum	mary	Not available – No CSR					
	re controls e engineering	Sufficient ventilation.					
Hygiene me	easures	Wash hands thoroughly after handling chemical products, before eating, drinking, 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 pr	otection	Use safety glasses (according to EN166) when there is risk of splashes.					
Hand prote	ction	Wear pr	otective gloves (ac	cording to EN374	) of butyl rubber or r	nitrile rubber.	
Body prote	ction	Wear su	itable protective cl	othing.			
Environme controls	ntal exposure	e Not applicable					

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

9.1 Information on basic physical and chemical properties				
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.		
<b>10.3 Possibility of hazardous reactions</b> No available information.			
10.4 Condition to avoid	No available information.		
10.5 Incompatible materials	No available information.		
10.6 Hazardous decompositio	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 <sub>50</sub> (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).



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# **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1 Toxicity

12.1.1 Acute to	oxicity in the aquatic enviro	onment for DMSO
Toet	Value/unit (mg/l)	Test method

1651	
Fish LC <sub>50</sub>	
Daphnia EC50	
Algae EC <sub>50</sub>	

Value/unit (mg/l) 32000 7000 12350-25500 Test methodExp. time (h)Static (FW)96No info. (FW)24No info. (SW)96

**Species** Oncorhynchus mykiss Daphnia sp. 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

coefficient (KOC)

Mobility

DMSO:  $K_{oc}$  (calculated) < 10 – Very high mobility expected in soil environments.

No available data

#### 12.5 Results of PBT and vPvB assessment

PBTThe substance is not considered PBT according to criteria in Annex XIIII.vPvBThe 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 n	nethods	
Method of disposal	Biological agents are considered hazardous waste. Disposal should be according to local, state or national legislation.	
Hazardous waste	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, 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.



# **SECTION 14: TRANSPORT INFORMATION**

Product is not classified as dangerous goods.

	ADR/RID	ADN/ADNR	IMDG	ΙΑΤΑ
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 <u>may</u> 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 Packing 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 system	Not applicable
The EU Seveso Directive	Not applicable

#### International regulations

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

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# **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	14-Mar-2019	New document