

Fast-Media[®] Kan Agar X-Gal

Safety data sheet

Prepared in accordance with Regulation (EC) No. 1907/2006 (REACH)

Version 1.1 | Created: 9 June 2014 | Revised: 1 June 2015

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Product name and description	Kanamycin agar with X-Gal
Trade name/Brand	Fast Media [®] Kan Agar X-Gal
Synonyms	None
REACH Number	Not applicable, mixture
CAS Number	Not applicable, mixture
EC Number	Not applicable, mixture
Recommended use	This LB agar medium contains the antibiotic kanamycin and X-Gal. It should be prepared by microwaving, not by autoclaving.
	Refer to the Teacher's guide of the NCBE <i>Bacterial transformation</i> kit (see Section 16).
Uses advised against	This product is for laboratory use only.
Supplier of the product and of this safety data sheet	National Centre for Biotechnology Education (NCBE) University of Reading 2 Earley Gate Whiteknights READING RG6 6AU United Kingdom T: 0118 9873743 F: 0118 9750140 E: NCBE@reading.ac.uk W: www.ncbe.reading.ac.uk
Manufacturer of the product	Cayla-Invivogen 5 rue Jean Rodier 31400 Toulouse France T: + 33 562 71 69 39 F: + 33 5 62 71 69 30 E: info@invivogen.com W: www.invivogen.com
Emergency telephone number	0118 9873743 (NCBE, University of Reading. 08.30 to 17.00 weekdays only)

SECTION 2. Hazards identification

Classification according to Regulation (EC) No. 1272/2008 [CLP] Unclassified

Label elements None required

Other hazards None

SECTION 3. Composition/information on ingredients

Name of component (Synonym) [CLP index number]	Weight (%)	EC (EINECS) number	CAS number	REACH registration number	Classification under Regulation (EC) No 1272/2008 [CLP]*
LB agar** (Luria-Bertani agar) [Not indexed under CLP yet]	>99	–	–	–	–
Kanamycin [Not indexed under CLP yet]	0.14***	–	59-01-8	–	–
X-Gal (5-bromo-4-chloro-3-indolyl- β -D-galactopyranoside) [Not indexed under CLP yet]	0.28	230-640-8	7240-90-6	–	Acute Tox. 4 (H302) Skin Harm (H312) Acute Tox. 4 (H332)
IPTG (Isopropyl β -D-1-thiogalactopyranoside) [Not indexed under CLP yet]	0.28	206-703-0	367-93-1	–	Acute Tox. 4 (H302) Skin Harm (H312) Acute Tox. 4 (H332)

* These hazard statements refer to the pure (100%) substances, not necessarily the substances as supplied.

** The suppliers of the product do not provide a list of its contents. There are many slightly different recipes for LB agar — all, however, contain salt (sodium chloride), tryptone, yeast extract and agar.

*** The suppliers do not state how much kanamycin is in the dried product. Once made up, however, the medium contains approximately 50 μ g of kanamycin per millilitre of medium (the exact amount depends upon the severity and duration of the heating as the medium is prepared). Note that the NCBE Bacterial transformation kit suggests diluting this medium with an equal volume of antibiotic and X-Gal free LB medium, making a final concentration of approximately 25 μ g per millilitre.

For the full text of the safety classifications (H statements in the table above), refer to Section 16.

SECTION 4. First aid measures

General information	If symptoms occur or in all cases of doubt, seek medical advice. Show this Safety Data Sheet to the doctor in attendance.
Inhalation	May be harmful if inhaled. Move the victim to fresh air. If the victim has stopped breathing artificial respiration and/or oxygen may be necessary. Call a doctor immediately.
Skin contact	Wash the affected area with soap and plenty of water. Seek medical attention if irritation occurs.
Eye contact	Check for and remove contact lenses if present. Rinse opened eye immediately with running water, also wash under the eyelids, for several minutes. Seek medical advice.
Ingestion	May be harmful if swallowed. Rinse out mouth with water, then drink plenty of water. Do not induce vomiting. Seek medical help immediately.
Self-protection of the first aider	Rinse your hands with water after handling anything that has been contaminated with the agar powder.
Most important symptoms and effects, both acute and delayed	Not applicable.
Indication of any immediate medical attention and special treatment	If in contact with the eyes or skin, wash with water. If ingested, do not induce vomiting. If the victim is conscious, rinse the mouth with water.
Advice to doctor	Treat symptomatically.

SECTION 5. Firefighting measures

The mixture is not flammable, although the paper packaging is.

Extinguishing media

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special hazards arising from the substance or mixture

No information available.

Advice for firefighters

Wear self-contained breathing apparatus for fighting fire if necessary.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

If spilt, avoid raising a dust. Avoid contact with eyes, skin and clothing. Wear a lab coat, eye protection and suitable gloves (see Section 7).

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Wipe up the spill and place in closed containers for disposal.

Reference to other sections

See Section 13 for disposal instructions.

SECTION 7. Handling and storage

Precautions for safe handling

Wear a lab coat to prevent any spills from damaging clothing. Gloves and eye protection should be worn by teachers or technicians when preparing the medium, although it is not necessary for students to do so when they are handling the petri dishes of prepared media. Be aware that when the medium is prepared in a microwave oven, it can boil up suddenly and unexpectedly. Wear heat-proof gloves when handling the hot liquid medium. Refer to the NCBE *Bacterial transformation kit* Teacher's guide for full instructions on preparing the medium.

Conditions for safe storage, including any incompatibilities

Store in a dry place at room temperature. The unopened medium will be stable at room temperature for up to two years. Prepared plates of the medium will be stable for 4 weeks if refrigerated at 4 °C.

Specific end use(s)

In the NCBE *Bacterial transformation kit*, the media is used for growing, selecting and identifying transformed bacteria.

SECTION 8. Exposure controls/personal protection

Control parameters

Exposure limits	No information available.
Biological limit values	No information available.
Derived no effect level	No information available.
Predicated no effect level	No information available.

Exposure controls

Handle in accordance with good laboratory hygiene and safety practice. Avoid contact with eyes, skin and clothing. Wash hands before breaks and after handling the mixture.

SECTION 9. Physical and chemical properties

Physical state	Powder.
Appearance	Beige powder with darker granular components.
Odour	Odourless.
pH	~7.0
Flash point	Does not flash.
Solubility	Not applicable.

SECTION 10. Stability and reactivity

Chemical stability	Stable for up to two years if kept dry and at room temperature.
Possibility of hazardous reactions	No information available.
Conditions to avoid	Moisture. Strong oxidising agents and strong bases.
Incompatible materials	No information available.
Hazardous decomposition products	No information available.

SECTION 11. Toxicological information

Acute toxicity	No information available.
Chronic toxicity	No information available.
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Sensitisation	No information available.
Mutagenic effects	No information available.
Reproductive effects	No information available.
Developmental effects	No information available.
Target organs	No information available.
Endocrine disruptor information	No information available.

SECTION 12. Ecological information

Toxicity	No information available.
Persistence and degradability	Expected to be biodegradable.
Bioaccumulative potential	No information available.
Mobility in soil	No information available.
Results of PBT and vPVB assessment	No information available.
Other adverse effects	None known.

SECTION 13. Disposal considerations

Waste from residues/unused product	Any unused powder should be placed in a sealed container and disposed of as chemical waste in accordance with local regulations. Unused and used prepared media should be autoclaved before disposal.
Contaminated packaging	Dispose of as unused product.

SECTION 14. Transport information

UN number	Not applicable.
UN proper shipping name	None assigned.
Transport hazard class(es)	Non-hazardous.
Packing group	Not applicable.
Environmental hazards	Discharge into the environment must be avoided.
Special precautions for user	Product must be kept dry.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code	
IMDG (Sea transport)	Non-hazardous.
ADNR (Inland waterways)	Non-hazardous.
ADR (Road transport)	Non-hazardous.
RID (Rail transport)	Non-hazardous.
ICAO/IATA DGR (Air transport)	Non-hazardous.

SECTION 15. Regulatory information

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

No information available.

Chemical Safety Assessment

No information available.

SECTION 16. Other information

Full text of GHS hazard statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.

Refer to the Teacher's guide which accompanies the NCBE *Bacterial transformation kit*. This can be downloaded from the NCBE's Web site: **www.ncbe.reading.ac.uk/transformation**

The information given in this Safety Data Sheet is based on the present state of our knowledge.

This Safety Data Sheet has been compiled and is solely intended for this product.

This Safety Data Sheet was revised on 1 June 2015, when the older (67/548/EEC [DSD]) safety classifications were deleted.

END OF SAFETY DATA SHEET