Safety data sheet

NutriCulture JC-1 Mitochondrial Membrane Potential Assay Kit

Product name NutriCulture JC-1 Mitochondrial Membrane Potential Assay Kit	Catalog no. JMM100
Synonyms JC-1 mitochondrial membrane potential assay	Source SDS revision -
CAS no. -	Format version / date 1.0 / 23 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	NutriCulture JC-1 Mitochondrial Membrane Potential Assay Kit
Product code	JMM100
CAS number	-
EC number	-
Recommended use	Research use only; fluorescence-based mitochondrial membrane potential assessment.
Supplier	EcoTech Biotechnology
Website	www.ecotechbiotech.com
Address	Universite Mah. Ipekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10, Yakutiye, Erzurum, Türkiye
Telephone	0090 544 327 34 97
SDS contact	info@ecotechbiotech.com
Emergency telephone	0090 544 327 34 97
Available	Monday-Saturday/08:00-20:00/GMT+3
Languages	Turkish/English
Outside these hours	Contact: info@ecotechbiotech.com

02 HAZARDS IDENTIFICATION

Classification	Not classified as hazardous under Regulation (EC) No. 1272/2008 (CLP).
Label elements	No hazardous labeling required.
Symbols / pictograms	None
Signal word	None
Hazard statements	None
Precautionary statements	Follow good laboratory hygiene and safety practices.
Other hazards	None known.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	NutriCulture JC-1 Mitochondrial Membrane Potential Assay Kit
Synonyms	JC-1 mitochondrial membrane potential assay
Concentration	No data available
Formula	Not applicable - multi-component kit.
Molecular weight	Not applicable - mixture.
Mixture	JC-1 mitochondrial membrane potential assay kit.
Disclosure statement	No hazardous constituents at concentrations of 1% or greater; no known carcinogens at 0.1% or greater.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Move to fresh air if mist or aerosol is inhaled. Seek medical attention if symptoms persist.
Ingestion	Rinse mouth with water. Do not induce vomiting. Seek medical attention if unwell.
Skin contact	Wash affected skin with soap and water. Remove contaminated clothing.
Eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy. Seek medical advice if irritation persists.
Immediate medical attention / treatment	Treat symptomatically. Show this safety data sheet to medical personnel.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, foam, dry powder or carbon dioxide suitable for the surrounding fire.
Special hazards arising from the substance or mixture	Thermal decomposition may release irritating or toxic fumes; composition-dependent.
Advice for firefighters	Firefighters should wear self-contained breathing apparatus and appropriate protective clothing.
Further information	Prevent contaminated firefighting water from entering drains.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid direct contact and inhalation of aerosols or dry reagent dust. Wear laboratory coat, gloves and eye protection; ventilate the area.
Environmental precautions	Avoid discharge to drains and waterways.
Methods and materials for containment and cleaning up	Absorb liquid spills with inert material; collect solids without generating dust. Place waste in a labeled sealed container.
Reference to other sections	Refer to Sections 8 and 13.

07 HANDLING AND STORAGE

Precautions for safe handling	Avoid inhaling aerosols or powder and contact with skin and eyes. Protect dye solutions from light; use appropriate chemical-resistant gloves.
Conditions for safe storage	Store at -20 °C. Protect from light; keep reagent containers tightly closed. Avoid repeated freeze-thaw cycles.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No kit-specific occupational exposure limits have been established; consult individual reagent SDSs where available.

8.2 Exposure controls

Engineering measures	Provide adequate laboratory ventilation and access to an eyewash station.
Hygiene measures	Do not eat, drink or smoke during handling. Wash hands after use.
Eye / face protection	Wear protective eyewear meeting applicable laboratory standards.
Hand protection	Wear appropriate chemical-resistant gloves, selected for the reagent solvent and exposure time.
Skin and body protection	Wear a laboratory coat and closed shoes.
Respiratory protection	Normally not required for small-scale use with adequate ventilation; assess protection if aerosols or dust are generated.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid.
Odor	Little to none.
Odor threshold	No data available
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable to liquid; flash point not measured
Upper / lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	JC-1 dye is soluble in DMSO or DMF
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	Not determined
Oxidizing properties	No data available

10 STABILITY AND REACTIVITY

Reactivity	Stable under recommended transport or storage conditions.
Chemical stability	Stable under recommended transport or storage conditions.
Possibility of hazardous reactions	No hazardous reactions under normal transport or storage conditions.
Conditions to avoid	Heat and moisture.
Incompatible materials	Strong acids/alkalis and strong oxidizing/reducing agents.
Hazardous decomposition products	Toxic fumes may be released in combustion.

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No experimental data available for the complete kit.
Skin corrosion / irritation	No kit-level assessment available.
Serious eye damage / eye irritation	No kit-level assessment available.
Carcinogenicity	No kit-level assessment available.
Reproductive toxicity	No kit-level assessment available.
STOT - SE	No data available.
STOT - RE	No data available.
Aspiration hazard	No data available.

11.2 Potential health effects

Ingestion: May cause adverse effects; avoid ingestion.
Inhalation: Avoid breathing dust, mist and aerosols.
Skin: May cause irritation depending on components and solvent.
Eyes: May cause irritation; protect eyes from splashes.

11.3 Additional information

No measured toxicological data are available for the complete kit.

12 ECOLOGICAL INFORMATION

Ecotoxicity	No data available.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	No data available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose of unused reagents and contaminated consumables as laboratory chemical waste in accordance with local regulations. Do not release to drains.
Contaminated packaging	Dispose of in accordance with local requirements; do not reuse containers.

Transport & reference

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14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
ADR/RID	-	Not dangerous goods	-	-	No
IMDG	-	Not dangerous goods	-	-	No
IATA	-	Not dangerous goods	-	-	No

15 REGULATORY INFORMATION

Regulatory information	Regulation (EC) No. 1907/2006 (REACH), Annex II as amended by Regulation (EU) 2020/878; Regulation (EC) No. 1272/2008 (CLP).
Safety, health and environmental regulations / legislation	Apply applicable laboratory chemical handling regulations to component preparations.
Chemical Safety Assessment	No formulation-specific assessment available.

16 OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE	Specific Target Organ Toxicity - Single Exposure
STOT-RE	Specific Target Organ Toxicity - Repeated Exposure
PBT	Persistent Bioaccumulative and Toxic
vPvB	very Persistent very Bioaccumulative and toxic
ADR	European Agreement concerning the international carriage of Dangerous goods by Road
CAS	Chemical Abstracts Service
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime code for Dangerous Goods
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
RID	Regulations concerning the International transport of Dangerous goods by rail