



SAFETY DATA SHEET

Date of issue: 15.01.2025

According to Regulation (EC) No. 2020/878 & 1272/2008

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SECTION 1: Identification of the substance/mixture and of the company

1.1 Product Identifier

REF: MLE, LE10

Product name: LIPOPROTEIN ELECTROPHORESIS KIT

REACH registration number: The annual tonnage does not require registration

Kit Components/Mixtures (Buffers):

- Pre-cast agarose gels
- Electrophoresis buffer 50X
- NaOH solution
- Staining solution

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

Laboratory reagents intended to assist with in vitro diagnosis

1.3 Details of the supplier of the safety data sheet

Manufactured by:

DIMITRIADIS IOANNIS AND SON PC Production of Electrophoresis Products
Business Incubator Thermi, Steliou Kazantzidi 47, 57001 THERMI PO BOX 8101,
GREECE Email: hellabio@hellabio.com. www.hellabio.com TEL (+30) 2311 999911

1.4 Emergency telephone number

Call (+30) 2311 999911 (Hellabio, Thessaloniki, Greece) for general information. In case of an emergency please contact your country's poison control center.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

Pre-cast agarose gels

Does not meet the criteria for classification in accordance with Regulation (EC) No1272/2008 (CLP).

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Electrophoresis buffer 50X

Signal word: Danger

Health Hazards	Hazard Category
May damage fertility. Suspected of damaging the unborn child.	Repr. 1B
Fatal if swallowed	Acute Tox. 2

Environmental Hazards	Hazard Category
Very toxic to aquatic life	Aquatic Acute 1
Very toxic to aquatic life with long lasting effects	Aquatic Chronic 1

Staining solution

Signal word: Danger

Health Hazards	Hazard Category
Harmful if swallowed	Acute Tox. 4
Highly Flammable liquid and vapor	Flam. Liq. 2
Toxic if swallowed	Acute Tox. 3
Toxic in contact with skin	Acute Tox. 3
Toxic if inhaled	Acute Tox. 3
Causes damage to organs	STOT SE 1

NaOH solution

Signal word: Danger

Health Hazards	Hazard Category
Causes severe skin burns and eye damage	Skin Corr. 1A

2.2 Labeling Elements

Pre-cast agarose gels

Does not need labeling as hazardous

Signal word: -

Electrophoresis buffer 50X



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Signal word: Danger

Hazard statements	Hazard Class
H360FD	Reproductive toxicity 1B
H300	Acute Tox. 2
H400	Aquatic Acute 1
H410	Aquatic Chronic 1

Precautions/Prevention
P203- Obtain, read, and follow all safety instructions before use
P280- Wear protective gloves, protective clothing, eye protection, face protection
P264- Wash hands thoroughly after handling
P270- Do not eat, drink, or smoke when using this product
P273- Avoid release to the environment

Staining solution



Signal word: Danger

Hazard statements	Hazard Class
H225	Flam. Liq. 2
H301	Acute Tox. 3
H303	Harmful if swallowed
H311	Acute Tox. 3
H331	Acute Tox. 3
H370	STOT SE 1

Precautions/Prevention
P203- Obtain, read, and follow all safety instructions before use
P210- Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.
P233- Keep container tightly closed.
P280- Wear protective gloves, protective clothing, eye protection, face protection
P264- Wash hands thoroughly after handling
P261- Avoid breathing dust/fume/gas/mist/vapours/spray
P270- Do not eat, drink or smoke when using this product.
P304+P340: If inhaled, remove person to fresh air and keep comfortable for breathing.

NaOH solution



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Signal word: Danger

Hazard statements	Hazard Class
H314	Skin Corr. 1A
H318	Eye Dam. 1
H290	Met. Corr. 1

Precautions/Prevention

P203- Obtain, read, and follow all safety instructions before use

P280- Wear protective gloves, protective clothing, eye protection, face protection

P264- Wash hands thoroughly after handling

P390- Absorb spillage to prevent material damage

2.3 Other Hazards

Not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances / 3.2 Mixtures

Pre-cast agarose gels

All components present no significant physical or chemical hazard at the concentration used.

Electrophoresis buffer 50X

Component	Cas number	Conc.-%	Hazard Statement
Boric Acid	10043-35-3	0.9%	H360FD- Repr. toxicity 1B
Sodium Azide	26628-22-8	5%	H300- Acute Tox.3 H400- Aquatic Acute 1 H410- Aquatic Chronic 1

Staining solution

Component	Cas number	Conc.-%	Hazard Statement
Methanol	77-92-9	95-99%	H225- Highly Flammable liquid and vapor H301- Toxic if swallowed H311- Toxic in contact with skin H331- Toxic if inhaled H370-Causes damage to organs



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NaOH Solution

Component	Cas number	Conc.-%	Hazard Statement
NaOH	1310-73-2	0.8	H314- Causes severe skin burns and eye damage H318- Causes serious eye damage

All other components present no significant physical or chemical hazard at the concentration used.

SECTION 4. First aid measures

4.1 Description of first aid measures

Skin contact:

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for 15 minutes under running water.

Eye contact:

Rinse the affected eye(s) thoroughly under running water for at least 10 minutes. Further treatment by a physician should follow.

Inhalation:

Transfer the affected person(s) to fresh air. If symptoms persist, call a physician.

Oral intake/ingestion:

Contact IMMEDIATELY with your country's poison control center

4.2 Most important symptoms and effects, both acute and delayed

In most cases, a rapid rinse with water is sufficient to alleviate the symptoms. However, prolonged exposure can lead to irritation and damage to the eyes and skin.

4.3 Indication of any immediate medical attention and special treatment needed

In case of oral intake/ingestion contact with country's poison control center and/or a physician IMMEDIATELY.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Staining solution is highly flammable. Suitable extinguishing media: Carbon dioxide (CO₂). Foam. Dry chemical. Not suitable extinguishing media: Water.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear protective suit with breathing apparatus



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not inhale vapors. Remove any contaminated clothing. Avoid contact with bare skin and use personal protective equipment (PPE). Clean with caution.

6.2 Environmental precautions

Avoid spilling into drains and waterways whenever possible. Buffers containing sodium azide pose a danger to the environment.

6.3 Methods and material for containment and cleaning up

Wipe spillage with caution using absorbent paper. Do not touch with bare hands/skin. Rinse with water.

6.4 Reference to other sections

See section 3 for hazard information of each mixture

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Always follow the instructions for use. Each kit should be stored horizontally, as indicated on the label. Use personal protective equipment (Wear protective gloves, protective clothing, eye protection, face protection).

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated area between 15-25°C.

7.3 Specific end use(s)

This kit is intended for in vitro diagnosis

SECTION 8: Exposure controls/personal protection

8.1 Control parameters/ Occupational exposure limits (OELs)

Component	Cas Number	ACGIH TLV© 8-hour TWA	CAL/OSHA PEL
Boric Acid	10043-35-3	2 mg/m ³ (Inhalable)	-
Sodium Azide	26628-22-8	0.29 mg/m ³ (as Sodium azide)	0.3 mg/m ³
Methanol	67-56-1	262 mg/m ³	260 mg/m ³

8.2 Exposure controls

Use personal protective equipment (PPE)

Eye protection: Use safety glasses, avoid contact.



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Skin/Hand protection: Avoid direct contact of the product with skin, immediately remove any clothing soiled with the product and wash contaminated skin with soapy water. Use personal protective equipment, proper clothing and gloves.

Respiratory protection: Avoid fumes, use in well-ventilated areas.

Thermal hazards: Keep away from fire and heat surfaces.

SECTION 9: Exposure controls/personal protection

9.1 Information on basic physical and chemical properties

Pre-cast Agarose gels

Physical state	Solid
Colour	Colorless
Odour	Odourless
Odour threshold	No data available
pH	9 ± 0.2
Melting point/freezing point	No data available
Initial boiling point and boiling range	90 - 100°C
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	No data available
Vapour pressure:	23 hPa
Vapour density:	No data available
Relative density:	No data available
Solubility(ies)	-
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature:	No data available
Viscosity:	-
Explosive properties:	Not explosive

Electrophoresis buffer 50X

Physical state	Liquid
Colour	Colorless
Odour	Odourless
Odour threshold	No data available
pH	9 ± 0.2
Melting point/freezing point	No data available
Initial boiling point and boiling range	90 - 100°C
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	No data available
Vapour pressure:	23 hPa
Vapour density:	No data available



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Relative density:	No data available
Solubility(ies)	Miscible with water
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 explosive

Staining solution

Physical state	Liquid
Colour	Red
Odour	light
Odour threshold	No data available
pH	<2
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)	Highly Flammable
Upper/lower flammability or explosive limits	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility(ies)	Miscible with water
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 explosive

9.2 Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is stable in conditions provided by the manufacturer.

10.2 Chemical stability

No decomposition if stored and applied as directed. The product is stable when normal handling is in accordance with conditions provided by the manufacturer.

10.3 Possibility of hazardous reactions

No data available



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10.4 Conditions to avoid

Avoid light and heat.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

There is no available data for the mixtures/buffers. Toxicity levels of chemicals used in mixtures are stated below. For Information on hazard classes as defined in Regulation (EC) No 1272/2008 see sections 2 and 3.

Acute toxicity

Component	LD50 (Oral - Rat)
Boric acid	2660 mg/kg
Sodium Azide	27 mg/kg
Methanol	>5000 mg/kg

Skin corrosion/irritation: May irritate skin

Serious eye damage/irritation: Irritant for the eye

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

STOT-single exposure: No data available

STOT-repeated exposure: No data available

Aspiration hazard: No data available

SECTION 12: Ecological information

12.1 Ecological Toxicity

Mixtures containing Sodium Azide (Cas: 26628-22-8) pose a danger to the environment and aquatic organisms with long lasting effects. Avoid release to the environment and ensure proper disposal methods. Quickly contain and manage any spillage, with appropriate cleanup materials. Do not spill into drains and waterways.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties



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No data available

12.7 Other adverse effects

No other relevant information

SECTION 13: Disposal considerations

13.1 Waste treatment methods

It is crucial to handle and dispose of chemicals in compliance with local, regional, and national regulations to prevent environmental contamination or harm to public health. Users are advised to exercise caution when managing waste, ensuring that disposal methods minimize risks to human health and the environment. Proper waste treatment can involve neutralization, incineration, or disposal at a licensed facility designed to handle hazardous substances. Always consult local waste disposal guidelines and regulatory authorities to ensure full compliance with your country's laws regarding hazardous material disposal.

SECTION 14: Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

No limits

14.5 Environmental hazards

Avoid spillage to the environment

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

This Material Safety Data Sheet (MSDS) was prepared in accordance with Regulation (EC) No 1907/2006 (REACH), No 1272/2008 and No 2020/878.

The supplier has not carried out a chemical evaluation a safety assessment for the substance or mixture.

SECTION 16: Other information

The information provided in this Material Safety Data Sheet (MSDS) is intended solely for safety guidance and is based on the best available knowledge at the time of publication. It is not intended to be a warranty. The manufacturer or distributor does not assume any liability for the misuse or improper handling of the product. Always



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refer to the latest regulatory information and consult with safety experts when necessary.