

**Material Safety Data Sheet (MSDS) for MucorGenius® real-time PCR (PN-700)**

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**1. Identification of the product and the company****A. Product identification**

Product name: MucorGenius®  
Product number: PN-700  
Product form: Mixture (kit)  
Components: MucorGenius® PCR mix, taq polymerase,  
Dilution buffer, internal control, MucorGenius® positive control

**B. Identified use of the mixture**

The MucorGenius® real-time PCR kit is intended for detection of Mucorales DNA in clinical BAL, serum and biopsy samples.

**C. Supplier details**

PathoNostics B.V.  
Randwycksingel 45  
6229 EG Maastricht  
The Netherlands  
Tel: +31(0)43-3030423  
Email: [info@pathonostics.com](mailto:info@pathonostics.com)

**D. Telephone number for emergencies**

112 (Alarm number)

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**2. Hazards identification****A. Classification according to (EC) No. 1272/2008 (CLP)**

Not classified

**B. Label elements according to (EC) No.1272/2008**

EUH210 Safety data sheet available on request

**C. Other hazards**

This kit contains an ingredient of animal origin but can be considered harmless as this is DNA and therefore not able to transmit disease.

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**3. Composition/information on ingredients**

Chemical name	Kit component	Percentage (% w/v)	Product identifier	Classification according to (EC) 1272/2008
Potassium chloride	MucorGenius PCR mix	0.37	CAS: 7447-40-7 EC: 231-211-8	Not classified
Tris-Hydrochloride	MucorGenius PCR mix	0.12	CAS: 1185-53-1 EC: 214-684-5	Not classified

Magnesium chloride	MucorGenius PCR mix	<0.1	CAS: 7786-30-3 EC: 232-094-6	Not classified
dNTP = mixture of 2'-Deoxyadenosine 5'-(tetrahydrogen triphosphate), dGTP, thymidine 5'-(tetrahydrogen triphosphate) and dCTP	MucorGenius PCR mix	<0.1	CAS: 1927-31-7 2564-35-4 365-08-2 2056-98-6 EC: 217-662-3 219-887-2 206-669-7 218-153-9	Not classified Not classified Not classified Not classified
Tris(hydroxymethyl)amino methane	MucorGenius PCR mix	<0.1	CAS: 77-86-1 EC: 201-064-4	Not classified
EDTA (ethylenedinitrilotetraacetic acid)	MucorGenius PCR mix	<0.1	CAS: 60-00-4 EC: 200-449-4	Eye irrit. 2 H319
glycerol	Taq polymerase	50	CAS: 56-81-5 EC: 200-289-5	Not classified
Poly(oxyethylene) octylphenyl ether(Nonidet P-40)	Taq polymerase	0.5	CAS: 9036-19-5 EC: 618-344-0	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1 H302 H315 H318 H400 H410 M-factor Aquatic Acute: 10
Water	Dilution buffer	100	CAS: 7732-18-5 EC: 231-791-2	Not classified
Water	Internal control	>98	CAS: 7732-18-5 EC: 231-791-2	Not classified
Tris(hydroxymethyl)amino methane	Internal control	<0.1	CAS: 77-86-1 EC: 201-064-4	Not classified
EDTA (ethylenedinitrilotetraacetic acid)	Internal control	0.1	CAS: 60-00-4 EC: 200-449-4	Not classified
Tris(hydroxymethyl)amino methane	MucorGenius positive control	0.1	CAS: 77-86-1 EC: 201-064-4	Not classified
EDTA (ethylenedinitrilotetraacetic acid)	MucorGenius positive control	<0.1	CAS: 60-00-4 EC: 200-449-4	Eye irrit. 2 H319
Water	MucorGenius positive control	>98	CAS: 7732-18-5 EC: 231-791-2	Not classified

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#### 4. First-aid measures

##### A. Description of first-aid measures

**General advice:** if feeling unwell, consult a physician and show the labels where possible.

**Inhalation:** Remove to fresh air. Provide artificial respiration during non-breathing.

**Skin contact:** Wash skin with plenty of water and soap

**Eye contact:** Immediately flush eyes with plenty of water

**Ingestion:** Do not induce vomiting. Take large quantities of water. No oral intake of water if the person is unconscious.

##### B. Most important symptoms/effects

Not expected to present a significant hazard under anticipated conditions or normal use.

##### C. Indication of immediate medical attention and special treatment

No data available.

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#### 5. Fire-fighting measures

##### A. Suitable extinguishing media

Use carbon dioxide, water or dry chemical spray

##### B. Special hazards arising from the substance or mixture

No data available

##### C. Advice for fire fighters

Wear self-contained breathing apparatus and full protective gear to prevent contact with skin and eyes.

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#### 6. Accidental release measures

##### A. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear appropriate personal protective equipment as specified in section 8. Isolate hazard area. Contain and recover liquid when possible.

##### B. Environmental precautions

Avoid further leakage if possible without risk. Collect liquid in appropriate container and transfer to chemical waste container.

##### C. Methods and materials for containment and cleaning up

Collect liquid in appropriate container and transfer to chemical waste container.

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#### 7. Handling and storage

##### A. Precautions for safe handling

Wear personal protective equipment

##### B. Conditions for safe storage

Store at -20°C in (tightly) closed container. Avoid direct sunlight.

**C. Specific end use(s)**

The MucorGenius® real-time PCR product is intended for professional use only.

**8. Exposure controls/personal protection****A. Control parameters**

No additional information available

**B. Exposure controls**

Respiratory protection: not required for the levels in this product

Eye protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area

Skin protection: wear nitrile rubber or neoprene gloves and a lab coat

**9. Physical and chemical properties****A. Information on basic physical and chemical properties**

Kit component	appearance	Odor	pH	Solubility in water
MucorGenius PCR mix	Clear light purple liquid	None	8	Soluble
Taq polymerase	Colorless and transparent liquid	None	8	Soluble
Dilution buffer	Colorless and transparent liquid	None	7.5	Soluble
Internal control	Colorless and transparent liquid	None	7.5	Soluble
MucorGenius Positive control	Colorless and transparent liquid	None	8	Soluble

There are no data available for melting/freezing point, flash point, vapor pressure, vapor density, volatility, flammability, specific gravity and auto-ignition temperature.

**B. Other information**

No data available

**10. Stability and reactivity****A. Reactivity**

No hazardous reactions will occur if used under the specific storage and handling conditions.

**B. Chemical stability**

Stable if stored in accordance with recommended conditions.

**C. Possibility of hazardous reactions**

No hazardous reactions will occur if used under the specific storage and handling conditions.

**D. Conditions to avoid**

None under recommended storage and handling conditions.

**E. Incompatibility - materials to avoid**

No additional information available

**F. Hazardous decomposition or byproducts**

No decomposition or byproducts will be formed if the kit is stored and used under the specific storage and handling conditions.

**11. Toxicological information**

**A. Information on toxicological effect**

Acute toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitisation:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity – single exposure:	No data available
Specific target organ toxicity – repeated exposure:	No data available
Aspiration hazard:	No data available

**B. Route of exposure**

- Inhalation: irritation of the respiratory tract
- Skin contact: may cause irritation of the skin
- Eye contact: may cause eye damage
- Ingestion: may be harmful if swallowed

**12. Ecological information**

**A. Toxicity**

Product/ingredient name	Result	Species	Exposure
Polyoxyethylene octyl phenyl ether	Acute LD50 5.85 mg/l water	Crustaceans – ceriodaphnia rigaudi - neonate	48 hours
	Acute LD50 11.2 mg/l water	Daphnia-Daphnia magna – Neonate	48 hours
	Acute LD50 4.5 mg/l water	Fish - Pimephales	96 hours

**B. Persistence and degradability**

Not applicable

**C. Bioaccumulative potential**

Not applicable

**D. Mobility in soil**

No data available

**E. Results of PBT and vPvB assessment**

No data available

**F. Other adverse effects**

No data available. Avoid release in to the environment

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**13. Disposal considerations**

Dispose in accordance with local environmental control regulations.

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**14. Transport information****A. UN-number**

Not applicable

**B. UN proper shipping name**

Not applicable

**C. Transport hazard class**

Not applicable

**D. Packing group**

Not applicable

**E. Environmental hazards**

Not applicable

**F. Special precautions for user**

Not applicable

**G. Transport in bulk**

Not applicable

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**15. Regulatory information****A. Safety, health and environmental regulations/legislation specific for the substance of mixture**

No data available

**B. Chemical safety assessment**

No chemical safety assessment has been carried out for the substances of the mixture by the supplier

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## 16. Other information

### General

The MSDS has been compiled in accordance with commission regulation (EU) No. 453/2010

### Full text of H and EUH statements

H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long-lasting effects
EUH210	Safety data sheet available on request

DISCLAIMER: This product is for professional use only and should be handled by personnel trained in good laboratory practice and familiar with legal regulation. The above information is based on the current state of our knowledge but does not purport to be all inclusive and should only be used as a guideline for experienced personnel. PathoNostics shall not be held liable for any damage resulting from the handling or from contact with the above described product. The safe use of this product rests entirely with the user.