

SAFETY DATA SHEET



MycoSensor QPCR Assay Kit, Part Number 302107

Section 1. Identification

1.1 Product identifier

Product name : MycoSensor QPCR Assay Kit, Part Number 302107

Part no. (chemical kit) : 302107

Part no. :

2X MycoSensor QPCR Master Mix	302106-51
MycoSensor Primer Mix	302107-55
Amplification Control	302107-54
A. laidlawii Positive Control	302107-53
M. orale Positive Control	302107-52
Reference Dye	600530-53
Wash Buffer (5X)	400771-16
DNA-Binding Solution	400771-13

Validation date : 4/12/2024

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

Identified uses :

- Analytical reagent.
- MycoSensor QPCR Master Mix 1.25 ml
- MycoSensor Primer Mix 0.050 ml
- Amplification Control 0.050 ml
- A. laidlawii Positive Control 0.075 ml
- M. orale Positive Control 0.075 ml
- Reference Dye 0.1 ml (100 µl 1 mM)
- Wash Buffer (5X) 10 ml
- DNA-Binding Solution 5 ml

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

<p>OSHA/HCS status :</p> <ul style="list-style-type: none"> 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix 	<p>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p>
<ul style="list-style-type: none"> Amplification Control 	<p>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.</p>
<ul style="list-style-type: none"> A. laidlawii Positive Control 	<p>While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR</p>

Section 2. Hazards identification

	1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
M. orale Positive Control	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Reference Dye	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Wash Buffer (5X)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
DNA-Binding Solution	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

2X MycoSensor QPCR Master

Mix

H320 EYE IRRITATION - Category 2B

DNA-Binding Solution

H302 ACUTE TOXICITY (oral) - Category 4
 H314 SKIN CORROSION - Category 1C
 H318 SERIOUS EYE DAMAGE - Category 1
 H412 AQUATIC HAZARD (LONG-TERM) - Category 3

2.2 GHS label elements

Hazard pictograms

: DNA-Binding Solution



Signal word

: 2X MycoSensor QPCR Master Mix	Warning
MycoSensor Primer Mix	No signal word.
Amplification Control	No signal word.
A. laidlawii Positive Control	No signal word.
M. orale Positive Control	No signal word.
Reference Dye	No signal word.
Wash Buffer (5X)	No signal word.
DNA-Binding Solution	Danger

Hazard statements

: 2X MycoSensor QPCR Master Mix	H320 - Causes eye irritation.
MycoSensor Primer Mix	No known significant effects or critical hazards.
Amplification Control	No known significant effects or critical hazards.
A. laidlawii Positive Control	No known significant effects or critical hazards.
M. orale Positive Control	No known significant effects or critical hazards.
Reference Dye	No known significant effects or critical hazards.
Wash Buffer (5X)	No known significant effects or critical hazards.
DNA-Binding Solution	H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage.

Section 2. Hazards identification

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

: 2X MycoSensor QPCR Master Mix Not applicable.
 MycoSensor Primer Mix Not applicable.
 Amplification Control Not applicable.
 A. laidlawii Positive Control Not applicable.
 M. orale Positive Control Not applicable.
 Reference Dye Not applicable.
 Wash Buffer (5X) Not applicable.
 DNA-Binding Solution P280 - Wear protective gloves, protective clothing and eye or face protection.
 P273 - Avoid release to the environment.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash thoroughly after handling.

Response

: 2X MycoSensor QPCR Master Mix P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 - If eye irritation persists: Get medical advice or attention.
 MycoSensor Primer Mix Not applicable.
 Amplification Control Not applicable.
 A. laidlawii Positive Control Not applicable.
 M. orale Positive Control Not applicable.
 Reference Dye Not applicable.
 Wash Buffer (5X) Not applicable.
 DNA-Binding Solution P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.
 P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
 P363 - Wash contaminated clothing before reuse.
 P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage

: 2X MycoSensor QPCR Master Mix Not applicable.
 MycoSensor Primer Mix Not applicable.
 Amplification Control Not applicable.
 A. laidlawii Positive Control Not applicable.
 M. orale Positive Control Not applicable.
 Reference Dye Not applicable.
 Wash Buffer (5X) Not applicable.
 DNA-Binding Solution Not applicable.

Disposal

: 2X MycoSensor QPCR Master Mix Not applicable.
 MycoSensor Primer Mix Not applicable.
 Amplification Control Not applicable.
 A. laidlawii Positive Control Not applicable.
 M. orale Positive Control Not applicable.
 Reference Dye Not applicable.
 Wash Buffer (5X) Not applicable.
 DNA-Binding Solution P501 - Dispose of contents and container in

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	: 2X MycoSensor QPCR Master Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	MycoSensor Primer Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Amplification Control	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	A. laidlawii Positive Control	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	M. orale Positive Control	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Reference Dye	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Wash Buffer (5X)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	DNA-Binding Solution	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: 2X MycoSensor QPCR Master Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	MycoSensor Primer Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Amplification Control	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	A. laidlawii Positive Control	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	M. orale Positive Control	Remove victim to fresh air and keep at rest in a

Section 4. First aid measures

position comfortable for breathing. Get medical attention if symptoms occur.

Reference Dye

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Wash Buffer (5X)

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

DNA-Binding Solution

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: 2X MycoSensor QPCR Master Mix

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

MycoSensor Primer Mix

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Amplification Control

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

A. laidlawii Positive Control

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

M. orale Positive Control

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Reference Dye

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Wash Buffer (5X)

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

DNA-Binding Solution

Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a

Section 4. First aid measures

Ingestion

: 2X MycoSensor QPCR Master Mix	physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
MycoSensor Primer Mix	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Amplification Control	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
A. laidlawii Positive Control	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
M. orale Positive Control	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Reference Dye	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Wash Buffer (5X)	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
DNA-Binding Solution	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs,

Section 4. First aid measures

the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye damage.
Inhalation	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Corrosive to the respiratory system.
Skin contact	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes severe burns.
Ingestion	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. May cause burns to mouth, throat and stomach. Harmful if swallowed. Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

Eye contact	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Adverse symptoms may include the following: irritation watering redness No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain
--------------------	--	---

Section 4. First aid measures

		watering redness
Inhalation	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: stomach pains

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: 2X MycoSensor QPCR Master Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	MycoSensor Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Amplification Control	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	A. laidlawii Positive Control	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	M. orale Positive Control	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Reference Dye	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Wash Buffer (5X)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	DNA-Binding Solution	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

Section 4. First aid measures

		person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: 2X MycoSensor QPCR Master Mix	No specific treatment.
	MycoSensor Primer Mix	No specific treatment.
	Amplification Control	No specific treatment.
	A. laidlawii Positive Control	No specific treatment.
	M. orale Positive Control	No specific treatment.
	Reference Dye	No specific treatment.
	Wash Buffer (5X)	No specific treatment.
	DNA-Binding Solution	No specific treatment.
Protection of first-aiders	: 2X MycoSensor QPCR Master Mix	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	MycoSensor Primer Mix	No action shall be taken involving any personal risk or without suitable training.
	Amplification Control	No action shall be taken involving any personal risk or without suitable training.
	A. laidlawii Positive Control	No action shall be taken involving any personal risk or without suitable training.
	M. orale Positive Control	No action shall be taken involving any personal risk or without suitable training.
	Reference Dye	No action shall be taken involving any personal risk or without suitable training.
	Wash Buffer (5X)	No action shall be taken involving any personal risk or without suitable training.
	DNA-Binding Solution	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: 2X MycoSensor QPCR Master Mix	Use an extinguishing agent suitable for the surrounding fire.
	MycoSensor Primer Mix	Use an extinguishing agent suitable for the surrounding fire.
	Amplification Control	Use an extinguishing agent suitable for the surrounding fire.
	A. laidlawii Positive Control	Use an extinguishing agent suitable for the surrounding fire.
	M. orale Positive Control	Use an extinguishing agent suitable for the surrounding fire.
	Reference Dye	Use an extinguishing agent suitable for the surrounding fire.
	Wash Buffer (5X)	Use an extinguishing agent suitable for the surrounding fire.
	DNA-Binding Solution	Use an extinguishing agent suitable for the surrounding fire.

Section 5. Fire-fighting measures

Unsuitable extinguishing media	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	None known. None known. None known. None known. None known. None known. None known. None known.
---------------------------------------	--	--

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides No specific data. No specific data. No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds

5.3 Advice for firefighters

Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: 2X MycoSensor QPCR Master Mix	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.
	MycoSensor Primer Mix	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.
	Amplification Control	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.
	A. laidlawii Positive Control	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.
	M. orale Positive Control	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.
	Reference Dye	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.
	Wash Buffer (5X)	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.
	DNA-Binding Solution	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	: 2X MycoSensor QPCR Master Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	MycoSensor Primer Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Amplification Control	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	A. laidlawii Positive Control	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	M. orale Positive Control	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Reference Dye	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Wash Buffer (5X)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 5. Fire-fighting measures

DNA-Binding Solution

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 2X MycoSensor QPCR Master Mix

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

MycoSensor Primer Mix

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

Amplification Control

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

A. laidlawii Positive Control

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

M. orale Positive Control

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

Reference Dye

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

Wash Buffer (5X)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

DNA-Binding Solution

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when

Section 6. Accidental release measures

		<p>ventilation is inadequate. Put on appropriate personal protective equipment.</p>
<p>For emergency responders</p>	<p>: 2X MycoSensor QPCR Master Mix</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>MycoSensor Primer Mix</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>Amplification Control</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>A. laidlawii Positive Control</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>M. orale Positive Control</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>Reference Dye</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>Wash Buffer (5X)</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>DNA-Binding Solution</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
<p>6.2 Environmental precautions</p>	<p>: 2X MycoSensor QPCR Master Mix</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
	<p>MycoSensor Primer Mix</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
	<p>Amplification Control</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
	<p>A. laidlawii Positive Control</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
	<p>M. orale Positive Control</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,</p>

Section 6. Accidental release measures

Reference Dye	waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Wash Buffer (5X)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
DNA-Binding Solution	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	: 2X MycoSensor QPCR Master Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	MycoSensor Primer Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Amplification Control	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	A. laidlawii Positive Control	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	M. orale Positive Control	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Reference Dye	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Wash Buffer (5X)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an

Section 6. Accidental release measures

DNA-Binding Solution

inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

: 2X MycoSensor QPCR Master Mix

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

MycoSensor Primer Mix

Put on appropriate personal protective equipment (see Section 8).

Amplification Control

Put on appropriate personal protective equipment (see Section 8).

A. laidlawii Positive Control

Put on appropriate personal protective equipment (see Section 8).

M. orale Positive Control

Put on appropriate personal protective equipment (see Section 8).

Reference Dye

Put on appropriate personal protective equipment (see Section 8).

Wash Buffer (5X)

Put on appropriate personal protective equipment (see Section 8).

DNA-Binding Solution

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: 2X MycoSensor QPCR Master Mix

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

MycoSensor Primer Mix

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Amplification Control

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and

Section 7. Handling and storage

A. laidlawii Positive Control	processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
M. orale Positive Control	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Reference Dye	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Wash Buffer (5X)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
DNA-Binding Solution	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

: 2X MycoSensor QPCR Master Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
MycoSensor Primer Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled

Section 7. Handling and storage

Amplification Control

containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

A. laidlawii Positive Control

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

M. orale Positive Control

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Reference Dye

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Wash Buffer (5X)

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

DNA-Binding Solution

Store in accordance with local regulations. Store in original container protected from direct sunlight in a

Section 8. Exposure controls/personal protection

No exposure indices known.

8.2 Exposure controls

- Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, 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.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** :
- | | |
|-------------------------------|---------|
| 2X MycoSensor QPCR Master Mix | Liquid. |
| MycoSensor Primer Mix | Liquid. |
| Amplification Control | Liquid. |
| A. laidlawii Positive Control | Liquid. |
| M. orale Positive Control | Liquid. |
| Reference Dye | Liquid. |
| Wash Buffer (5X) | Liquid. |
| DNA-Binding Solution | Liquid. |

Section 9. Physical and chemical properties and safety characteristics

Color : 2X MycoSensor QPCR Master Mix Not available.
 MycoSensor Primer Mix Not available.
 Amplification Control Not available.
 A. laidlawii Positive Control Not available.
 M. orale Positive Control Not available.
 Reference Dye Not available.
 Wash Buffer (5X) Not available.
 DNA-Binding Solution Not available.

Odor : 2X MycoSensor QPCR Master Mix Not available.
 MycoSensor Primer Mix Not available.
 Amplification Control Not available.
 A. laidlawii Positive Control Not available.
 M. orale Positive Control Not available.
 Reference Dye Not available.
 Wash Buffer (5X) Not available.
 DNA-Binding Solution Not available.

Odor threshold : 2X MycoSensor QPCR Master Mix Not available.
 MycoSensor Primer Mix Not available.
 Amplification Control Not available.
 A. laidlawii Positive Control Not available.
 M. orale Positive Control Not available.
 Reference Dye Not available.
 Wash Buffer (5X) Not available.
 DNA-Binding Solution Not available.

pH : 2X MycoSensor QPCR Master Mix 8
 MycoSensor Primer Mix 7.5
 Amplification Control 7.5
 A. laidlawii Positive Control 8
 M. orale Positive Control 8
 Reference Dye 8
 Wash Buffer (5X) 6.4
 DNA-Binding Solution 6.4

Melting point/freezing point : 2X MycoSensor QPCR Master Mix Not available.
 MycoSensor Primer Mix 0°C (32°F)
 Amplification Control 0°C (32°F)
 A. laidlawii Positive Control 0°C (32°F)
 M. orale Positive Control 0°C (32°F)
 Reference Dye Not available.
 Wash Buffer (5X) 0°C (32°F)
 DNA-Binding Solution Not available.

Boiling point, initial boiling point, and boiling range : 2X MycoSensor QPCR Master Mix Not available.
 MycoSensor Primer Mix 100°C (212°F)
 Amplification Control 100°C (212°F)
 A. laidlawii Positive Control 100°C (212°F)
 M. orale Positive Control 100°C (212°F)
 Reference Dye Not available.
 Wash Buffer (5X) 100°C (212°F)
 DNA-Binding Solution Not available.

Flash point :

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
2X MycoSensor QPCR Master Mix						
Dimethyl sulfoxide	87	188.6	ASTM D 93	87	188.6	-
Glycerol	-	-	-	177	350.6	-

Section 9. Physical and chemical properties and safety characteristics

Reference Dye							
water	17.5	2.3	-	92.258	12.3	-	
Wash Buffer (5X)							
water	17.5	2.3	-	92.258	12.3	-	
DNA-Binding Solution							
water	17.5	2.3	-	92.258	12.3	-	

Relative vapor density : 2X MycoSensor QPCR Master Mix Not available.
 MycoSensor Primer Mix Not available.
 Amplification Control Not available.
 A. laidlawii Positive Control Not available.
 M. orale Positive Control Not available.
 Reference Dye Not available.
 Wash Buffer (5X) Not available.
 DNA-Binding Solution Not available.

Relative density : 2X MycoSensor QPCR Master Mix Not available.
 MycoSensor Primer Mix Not available.
 Amplification Control Not available.
 A. laidlawii Positive Control Not available.
 M. orale Positive Control Not available.
 Reference Dye Not available.
 Wash Buffer (5X) Not available.
 DNA-Binding Solution Not available.

Media	Result
2X MycoSensor QPCR Master Mix	
water	Soluble
MycoSensor Primer Mix	
water	Soluble
Amplification Control	
water	Soluble
A. laidlawii Positive Control	
water	Soluble
M. orale Positive Control	
water	Soluble
Reference Dye	
water	Soluble
Wash Buffer (5X)	
water	Soluble
DNA-Binding Solution	
water	Soluble

Partition coefficient: n-octanol/water : 2X MycoSensor QPCR Master Mix Not applicable.
 MycoSensor Primer Mix Not applicable.
 Amplification Control Not applicable.
 A. laidlawii Positive Control Not applicable.
 M. orale Positive Control Not applicable.
 Reference Dye Not applicable.
 Wash Buffer (5X) Not applicable.
 DNA-Binding Solution Not applicable.

Auto-ignition temperature :

Section 9. Physical and chemical properties and safety characteristics

Ingredient name	°C	°F	Method
2X MycoSensor QPCR Master Mix			
Dimethyl sulfoxide	300 to 302	572 to 575.6	-
Glycerol	370	698	-

Decomposition temperature : 2X MycoSensor QPCR Master Mix Not available.
 MycoSensor Primer Mix Not available.
 Amplification Control Not available.
 A. laidlawii Positive Control Not available.
 M. orale Positive Control Not available.
 Reference Dye Not available.
 Wash Buffer (5X) Not available.
 DNA-Binding Solution Not available.

Viscosity : 2X MycoSensor QPCR Master Mix Not available.
 MycoSensor Primer Mix Not available.
 Amplification Control Not available.
 A. laidlawii Positive Control Not available.
 M. orale Positive Control Not available.
 Reference Dye Not available.
 Wash Buffer (5X) Not available.
 DNA-Binding Solution Not available.

Particle characteristics

Median particle size : 2X MycoSensor QPCR Master Mix Not applicable.
 MycoSensor Primer Mix Not applicable.
 Amplification Control Not applicable.
 A. laidlawii Positive Control Not applicable.
 M. orale Positive Control Not applicable.
 Reference Dye Not applicable.
 Wash Buffer (5X) Not applicable.
 DNA-Binding Solution Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity : 2X MycoSensor QPCR Master Mix No specific test data related to reactivity available for this product or its ingredients.
 MycoSensor Primer Mix No specific test data related to reactivity available for this product or its ingredients.
 Amplification Control No specific test data related to reactivity available for this product or its ingredients.
 A. laidlawii Positive Control No specific test data related to reactivity available for this product or its ingredients.
 M. orale Positive Control No specific test data related to reactivity available for this product or its ingredients.
 Reference Dye No specific test data related to reactivity available for this product or its ingredients.
 Wash Buffer (5X) No specific test data related to reactivity available for this product or its ingredients.
 DNA-Binding Solution No specific test data related to reactivity available for this product or its ingredients.

Section 10. Stability and reactivity

10.2 Chemical stability	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
10.5 Incompatible materials	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

10.6 Hazardous decomposition products	: 2X MycoSensor QPCR Master Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	MycoSensor Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Amplification Control	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	A. laidlawii Positive Control	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	M. orale Positive Control	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Reference Dye	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Wash Buffer (5X)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	DNA-Binding Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2X MycoSensor QPCR Master Mix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
Reference Dye				
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
DNA-Binding Solution				
Guanidinium thiocyanate	LC50 Inhalation Dusts and mists	Rat - Female	3.181 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	593 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2X MycoSensor QPCR Master Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Section 11. Toxicological information

Reference Dye Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
--	----------------------	--------	---	-----------------	---

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Not available. Not available. Not available. Not available. Not available. Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
---	--	--

Potential acute health effects

Eye contact	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye damage.
Inhalation	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Corrosive to the respiratory system.

Section 11. Toxicological information

Skin contact	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes severe burns.
Ingestion	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. May cause burns to mouth, throat and stomach. Harmful if swallowed. Corrosive to the digestive tract. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	Adverse symptoms may include the following: irritation watering redness No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain watering redness
Inhalation	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur

Section 11. Toxicological information

Ingestion	: 2X MycoSensor QPCR Master Mix	No specific data.
	MycoSensor Primer Mix	No specific data.
	Amplification Control	No specific data.
	A. laidlawii Positive Control	No specific data.
	M. orale Positive Control	No specific data.
	Reference Dye	No specific data.
	Wash Buffer (5X)	No specific data.
	DNA-Binding Solution	Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : 2X MycoSensor QPCR Master Mix No known significant effects or critical hazards.
MycoSensor Primer Mix No known significant effects or critical hazards.
Amplification Control No known significant effects or critical hazards.
A. laidlawii Positive Control No known significant effects or critical hazards.
M. orale Positive Control No known significant effects or critical hazards.
Reference Dye No known significant effects or critical hazards.
Wash Buffer (5X) No known significant effects or critical hazards.
DNA-Binding Solution No known significant effects or critical hazards.

Carcinogenicity : 2X MycoSensor QPCR Master Mix No known significant effects or critical hazards.
MycoSensor Primer Mix No known significant effects or critical hazards.
Amplification Control No known significant effects or critical hazards.
A. laidlawii Positive Control No known significant effects or critical hazards.
M. orale Positive Control No known significant effects or critical hazards.
Reference Dye No known significant effects or critical hazards.
Wash Buffer (5X) No known significant effects or critical hazards.
DNA-Binding Solution No known significant effects or critical hazards.

Mutagenicity : 2X MycoSensor QPCR Master Mix No known significant effects or critical hazards.
MycoSensor Primer Mix No known significant effects or critical hazards.
Amplification Control No known significant effects or critical hazards.
A. laidlawii Positive Control No known significant effects or critical hazards.
M. orale Positive Control No known significant effects or critical hazards.
Reference Dye No known significant effects or critical hazards.
Wash Buffer (5X) No known significant effects or critical hazards.
DNA-Binding Solution No known significant effects or critical hazards.

Reproductive toxicity : 2X MycoSensor QPCR Master Mix No known significant effects or critical hazards.
MycoSensor Primer Mix No known significant effects or critical hazards.
Amplification Control No known significant effects or critical hazards.
A. laidlawii Positive Control No known significant effects or critical hazards.
M. orale Positive Control No known significant effects or critical hazards.
Reference Dye No known significant effects or critical hazards.
Wash Buffer (5X) No known significant effects or critical hazards.
DNA-Binding Solution No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
2X MycoSensor QPCR Master Mix					
Glycerol	12600	N/A	N/A	N/A	N/A
Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A
Reference Dye					
Reference Dye	70270.3	N/A	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
DNA-Binding Solution					
DNA-Binding Solution	1253.7	2325.6	N/A	N/A	6.7
Guanidinium thiocyanate	593	1100	N/A	N/A	3.181

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2X MycoSensor QPCR Master Mix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Chronic NOEC 100 ul/L Marine water	Algae - <i>Ulva lactuca</i>	72 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	21 days
Reference Dye			
Potassium chloride	Acute EC50 9.24 g/L Fresh water	Algae - <i>Desmodesmus subspicatus</i>	72 hours
	Acute EC50 1337000 µg/l Fresh water	Algae - <i>Navicula seminulum</i>	96 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - <i>Pseudosida ramosa</i> - Neonate	48 hours
	Acute LC50 93000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - <i>Danio rerio</i>	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2X MycoSensor QPCR Master Mix				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-

Section 12. Ecological information

DNA-Binding Solution Guanidinium thiocyanate	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	46 % - Inherent - 28 days	-	-
--	--	---------------------------	---	---

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2X MycoSensor QPCR Master Mix Dimethyl sulfoxide	-	-	Not readily
Reference Dye Potassium chloride	-	-	Readily
DNA-Binding Solution Guanidinium thiocyanate	-	-	Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2X MycoSensor QPCR Master Mix Glycerol	-1.76	-	Low
Dimethyl sulfoxide	-1.35	3.16	Low
Reference Dye Potassium chloride	-0.46	-	Low
DNA-Binding Solution Guanidinium thiocyanate	<-1.7	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

12.5 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.






Section 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN3316	UN3316	UN3316	UN3316	UN3316
UN proper shipping name	Chemical kit	CHEMICAL KIT	EQUIPO QUIMICO	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9 	9 	9 	9 	9 
Packing group	III	III	III	III	III
Environmental hazards	No.	No.	No.	No.	No.

Additional information

Remarks: Excepted Quantity

DOT Classification

: **Limited quantity** Yes.
Packaging instruction Exceptions: 161. Non-bulk: 161. Bulk: None.
Quantity limitation Passenger aircraft/rail: 10 kg. Cargo aircraft: 10 kg.
Special provisions 15

TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9).
Passenger Carrying Road or Rail Index 10
Special provisions 65, 141

Mexico Classification

: **Special provisions** 251, 340

IMDG

: **Emergency schedules** F-A, _S-P_
Special provisions 251, 340

IATA

: **Quantity limitation** Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.
Special provisions A44, A163

Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined
 Clean Water Act (CWA) 311: Edetic acid

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification	: 2X MycoSensor QPCR Master Mix MycoSensor Primer Mix Amplification Control A. laidlawii Positive Control M. orale Positive Control Reference Dye Wash Buffer (5X) DNA-Binding Solution	EYE IRRITATION - Category 2B Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract HNOC - Corrosive to respiratory tract
-----------------------	--	---

Composition/information on ingredients

Name	%	Classification
2X MycoSensor QPCR Master Mix		
Glycerol	≥10 - ≤25	EYE IRRITATION - Category 2B
Dimethyl sulfoxide	≤10	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B
Reference Dye		
Potassium chloride	≤5	EYE IRRITATION - Category 2B
DNA-Binding Solution		
Guanidinium thiocyanate	≥25 - ≤50	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract HNOC - Corrosive to respiratory tract

State regulations

Massachusetts : The following components are listed: GLYCERINE MIST

New York : None of the components are listed.

Section 15. Regulatory information

- New Jersey** : The following components are listed: GLYCERIN; DIMETHYL SULFOXIDE; METHANE, SULFINYLBIS-
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL
- California Prop. 65**

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

- Australia** : Not determined.
- Canada** : Not determined.
- China** : Not determined.
- Japan** : **Japan inventory (CSCL):** Not determined.
Japan inventory (ISHL): Not determined.
- New Zealand** : Not determined.
- Philippines** : Not determined.
- Republic of Korea** : Not determined.
- Taiwan** : Not determined.
- Thailand** : Not determined.
- Turkey** : Not determined.
- United States** : Not determined.
- Viet Nam** : Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
2X MycoSensor QPCR Master Mix EYE IRRITATION - Category 2B	Calculation method
DNA-Binding Solution ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method Calculation method Calculation method

History

- Date of issue/Date of revision** : 04/12/2024
- Date of previous issue** : 08/31/2023

Section 16. Other information

Version : 8

Key to abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- UN = United Nations

✔ Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.