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Location: <<mmmLocationGroup>>

SIGNERS:

Signer	Role	Date Signed

Revision History:

Version	Details
1	Initial version.
2	This is the 2nd revision, and it contains the updates required by the certification testing. In ENVIRONMENTAL OPERATING CONDITIONS table, changed 850 mAmps to 1.2 Amps. Fixed several typos.LATEST CHANGES: In ENVIRONMENTAL OPERATING CONDITIONS table, added Luminometer input current 850 mAmps
3	Updated regulatory compliance section.: a. FCC Radio Frequency Rules and Regulations section: Only translate to English and French. Remove from all other language translations. b. BC mark on the document: Only keep on the English copy document. Remove from all other language translations.
4	FCC ID and IC ID changed

- 5 Adding statement regarding for body operation with [3M Carry Case accessory](#) FCC ID and IC ID changed

Important Information

3M™ Clean-Trace™ Hygiene Monitoring and Management System consisting of 3M™ Clean-Trace™ Luminometer and 3M™ Clean-Trace™ Hygiene Management Software



SAFETY INFORMATION

Please read, understand, and follow all safety information contained in these instructions prior to use of this 3M™ Clean-Trace™ Luminometer. Retain these instructions for future reference.

Intended Use

The 3M Clean-Trace Luminometer is a battery operated Luminometer utilized primarily for objective and sensitive determination of the end result of Adenosine Tri-Phosphate (ATP) tests. The 3M Clean-Trace Luminometer power supply is provided to charge the battery. The 3M Clean-Trace Hygiene Management Software is designed for the transfer, organization, and storage of data generated from the 3M™ Clean-Trace™ ATP Tests.

3M has not designed nor documented the 3M Clean-Trace Luminometer, and its power supply, or 3M Clean-Trace Hygiene Management Software for use with other manufacturers' products, use with other manufacturers' designs, or use in any other application that has not been evaluated or

documented by 3M and may lead to an unsafe condition. The 3M Clean-Trace Luminometer is not intended to be used in potentially flammable or explosive environments. Although the 3M Clean-Trace Hygiene Monitoring and Management System is very sensitive, surfaces or solutions should not be considered sterile based on results. The 3M Clean-Trace Hygiene Monitoring and Management System is not intended to be used in the diagnosis of conditions in humans or animals. The user is responsible to know and follow applicable workplace regulations.

3M anticipates that the 3M Clean-Trace ATP Tests, equipment, and software will be utilized by technicians that have been properly trained on the 3M Clean-Trace ATP Test methods. If this product is used in a manner not specified, the protection provided by the product may be impaired.

USER RESPONSIBILITY

Users are responsible for familiarizing themselves with product instructions and information. Visit our website at www.3M.com/foodsafety, or contact your local 3M representative or distributor for more information.

When selecting a test method, it is important to recognize that external factors such as sampling methods, testing protocols, sample preparation, handling, and laboratory technique may influence results.

It is the user's responsibility in selecting any test method or product to evaluate a sufficient number of samples with the appropriate matrices and microbial challenges to satisfy the user that the chosen test method meets the user's criteria.

It is also the user's responsibility to determine that any test methods and results meet its customers' and suppliers' requirements.

As with any test method, results obtained from use of any 3M Food Safety product do not constitute a guarantee of the quality of the matrices or processes tested.

Explanation of Signal Word Consequences



WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury and/or property damage.

NOTICE: Indicates a hazardous situation which, if not avoided, could result in property damage

Explanation of Safety Related Symbols

	Warning: Hazardous Voltage
	Attention: Read Accompanying Documentation
	CAUTION: Recycle 3M Clean-Trace Luminometer to avoid environmental contamination. This product contains recyclable parts. For information on recycling - please contact your nearest 3M Service Center for advice.
	WEEE mark - This product contains electrical and electronic components and must not be disposed of using standard refuse collection. Please consult local directives for disposal of electrical and electronic equipment.
	Class II: Class two insulation referred to as double insulation.
	Applies to 3M Clean-Trace Luminometer Power Supply: Alternating current AC source.
	Applies to 3M Clean-Trace Luminometer Power Supply: Direct current DC source.
	UL NRTL mark (US and Canada electrical safety)
	CE mark (conforms to applicable requirements for European Economic Area).
	RCM mark (Australia electrical safety and EMC)
	BC mark (California regulation for battery charging systems)
	The 3M Clean-Trace Luminometer model number, which is LM1.

	The 3M Clean-Trace Luminometer serial number
EFFICIENCY LEVEL 	Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) complies with Energy Star tier. 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of Conduct (Europe)

 **WARNING**

To reduce the risks associated with fire and explosion:

- Do not dispose of battery or 3M Clean-Trace Luminometer in fire.
- Do not use or store the 3M Clean-Trace Luminometer or power supply in potentially flammable or explosive environments. The 3M Clean-Trace Luminometer was not designed to be categorized as "Intrinsically Safe".

To reduce the risks associated with hazardous voltage and fire:

- Do not modify any part of the 3M Clean-Trace Luminometer and power supply.
- Do not use a power supply or USB cord (power supply cord) other than the ones specified by 3M.
- Do not allow the power supply to get wet.
- Always keep power supply visible and accessible at all times. The plug at the wall socket is used to disconnect the 3M Clean-Trace Luminometer from the main power supply.

To reduce the risks associated with hazardous voltage:

- Do not service the 3M Clean-Trace Luminometer or power supply. For repairs, send only to 3M authorized service personnel.
- Do not use the 3M Clean-Trace Luminometer or power supply if the enclosure is broken.
- Do not use a damaged power supply or a damaged power supply cord.
- Always replace damaged components with only the 3M designated replacement parts.
- Disconnect the 3M Clean-Trace Luminometer from the AC power or the computer before cleaning.

To reduce the risks associated with illness or infection:

- Do not use the 3M Clean-Trace Hygiene Monitoring and Management System in the diagnosis of conditions in humans or animals.
- Do not use the 3M Clean-Trace Hygiene Monitoring and Management System as an indication of sterility of surfaces or solutions.

To reduce the risks associated with cross contamination:

- Always perform decontamination procedures stated in the **“Important Information 3M™ Clean-Trace Hygiene Monitoring and Management System consisting of 3M™ Clean-Trace™ Luminometer, and 3M™ Clean-Trace Hygiene Management Software”** booklet and in the **“3M™ Clean-Trace™ Luminometer User Manual”** prior to returning the instrument for service or prior to disposal.

 **CAUTION**

To reduce the risks associated with exposure to chemicals:

- Always wear protective apparel and eye protection while using these products.

To reduce the risks associated with property damage and food contamination:

- Dropping or impact to 3M Clean-Trace Luminometer could result in foreign particles.

To reduce the risks associated with environmental contamination:

- Always follow applicable regulations when disposing of the 3M Clean-Trace Luminometer power supply, and battery.

NOTICE

To reduce the risks associated with property damage:

- Do not use the 3M Clean-Trace Luminometer with non-3M tests.
- Use only 3M Clean-Trace Hygiene Management Software.

- To ensure accurate results and prevent spillage of reagents, please keep the 3M Clean-Trace Luminometer upright when testing.
- Do not operate the 3M Clean-Trace Luminometer in close proximity to strong magnetic fields.

To reduce the risks associated with exposure to a contaminated surface, water, or beverage outside the users validated Relative Light Unit (RLU) specifications:

- Always handle the 3M Clean-Trace Luminometer with care.
- Do not use if damaged.
- Do not use an out-of-calibration 3M Clean-Trace Luminometer. Contact an authorized 3M Service Center for service and calibration.
- Always remove the sample immediately after test.
- Use only 3M Clean-Trace ATP tests or 3M accessories supplied by your local 3M sales representative or distributor.
- Use and store 3M Clean-Trace ATP tests in accordance with the instructions provided with the tests.
- Recommended temperature use range for ATP Tests is between 15-25° C. A lower reading will be seen at temperatures below 15° C and above 25° C. However, if tests are always performed at this lower or higher temperature, consistent results can be obtained within the 5° C-40° C operating temperature for the 3M Clean-Trace Luminometer.
- Do not use the 3M Clean-Trace Luminometer if liquid or a foreign object gets inside.
- Do not operate in environments greater than 90% relative humidity and 40°C.

To avoid damage to 3M Clean-Trace Luminometer:

- Do not store the 3M Clean-Trace Luminometer at temperatures above 70° C.
- Do not store the 3M Clean-Trace Luminometer at temperatures below -40° C as condensation may occur. The instrument should be allowed to warm to room temperature before use and a cloth or tissue used to wipe dry the outer surfaces.
- Do not store or use the 3M Clean-Trace Luminometer or power supply in a location exposed to steam, high humidity, dust or strong vibration.
- Ensure annual recommended service and calibration of the 3M Clean-Trace Luminometer is completed through the 3M Service Center.
- Ensure that periodic inspection of the 3M Clean-Trace Luminometer is completed for damage including cracks or swelling.

- Reference the **Environmental Operating Conditions** table in this booklet and in the “**3M Clean-Trace Luminometer User Manual**”.
- Only insert 3M Clean-Trace Tests into the 3M Clean-Trace Luminometer chamber.
- Do not use cleaning agents in the 3M Clean-Trace Luminometer chamber.

REGULATORY COMPLIANCE

FCC and ISED Radio Frequency Rules and Regulations

This device complies with Part 15 of the FCC Rules and with ISED's license-exempt RSS's standards. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAN ICES-3 (A)/NMB-3(A)

FCC ID: DGF7100067976

IC:458A-7100067976

[For body worn operation, the 3M™ Clean-Trace™ Luminometer has been tested and meets the Radio Frequency \(RF\) exposure guidelines when used in configuration with 3M Carry Case accessory designated for this product. The use of accessories not approved by 3M Company may cause your device to malfunction or in the case of unapproved electrical accessories may cause the device to exceed RF energy exposure guidelines.](#)

Warning: Modifications to this device shall not be made without the written consent of 3M, Company. Unauthorized modifications may void the authority granted under Federal Communication Rules permitting the operation of this device.

ENVIRONMENTAL OPERATING CONDITIONS

Environmental Condition	Operating Condition	Units
Indoor Use only	<ul style="list-style-type: none"> - only connect the data connections to a computer that conforms to IEC/EN/UL/CSA 60950-1 - keep 3M Clean-Trace Luminometer away from liquids and high humidity when connected to the computer 	
Altitude	3000 maximum	meters
Operating Temperature Range	+5 to +40 (+41 to +104)	°C (°F)
Relative Humidity	10 - 90 Non-condensing	%
Storage Temperature Range	-40 to +70 (-40 to +158)	°C (°F)
AC Voltage for power supply Mains Supply voltage fluctuations up to ± 10% of nominal voltage Temporary overvoltages occurring on the mains supply	100 -240	Volts
Frequency	50-60	Hertz
AC Current for power supply	300	mA
Power supply output voltage	5	Volts DC
Power supply output current	1.2	Amps
Luminometer input current	850	mAmps
Overvoltage	Category II	
Pollution Degree	2	

INSTRUMENT SPECIFICATIONS

	Specification	Units
Length	59.27 (2.33)	mm (in)
Width	88.47 (3.48)	mm (in)
Height	268.17 (10.56)	mm (in)
Weight	517.83 (18.26)	g (oz.)

External Connectors

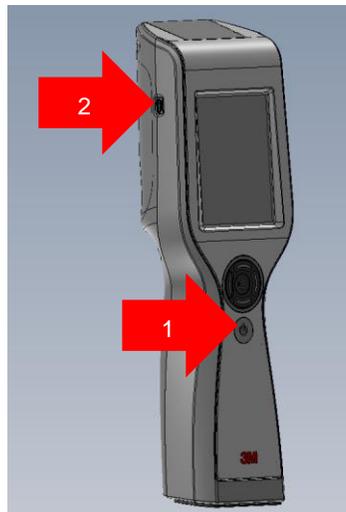
USB 2.0 type mini-AB receptacle

WARNING: To reduce the risks associated with hazardous voltage, always turn the instrument off and disconnect from outlet before cleaning the instrument.

Clean and decontaminate the instrument immediately if any spills occur.
Clean the external surfaces of the instrument regularly once per month.

Cleaning and Decontaminating the External surfaces:

1. Turn off the power by pressing and holding the on/off button for 3 seconds (1, see figure below), and then disconnect the USB cable (2, see figure below) on the side of the instrument.
2. Use a disposable towel (1) lightly dampened with a solution of mild, non-staining disinfectant/cleaner such as mild dishwashing soap to gently wipe the outer surfaces of the instrument. Wring out the disposable towel thoroughly so it is damp, but not dripping. Avoid the USB cable connection on the side of the instrument when cleaning the exterior surfaces.
3. Use another disposable towel to repeat the procedure with DI water (distilled water or deionized water).
4. Allow the exterior surfaces of the instrument to air dry for at least 1 hour. Do not reconnect the power cable and the USB cable until you have allowed the instrument to air dry for at least 1 hour.
5. Connect the USB cable (2), and turn on the power by pressing and holding the on/off button for 3 seconds (1).



LIMITED WARRANTY

3M Food Safety Hardware (“Hardware”) includes the 3M Clean-Trace Luminometer and any associated Software and other components supplied by 3M which are described in the applicable Installation and Use Guides (“User Documentation”).

LIMITED WARRANTY AND DISCLAIMER

3M warrants that for one year from the date of shipment that the Hardware will substantially perform in accordance with the User Documentation. THIS WARRANTY IS VOID IF: (A) THE HARDWARE HAS BEEN REPAIRED BY PERSONS NOT AUTHORIZED BY 3M; OR (B) THE HARDWARE HAS BEEN ALTERED, MODIFIED, OR MISUSED; OR (C) THE HARDWARE IS USED WITH PRODUCTS, SUPPLIES, COMPONENTS OR SOFTWARE NOT SUPPLIED BY 3M FOR USE WITH THE HARDWARE; OR (D) THE HARDWARE OR A COMPONENT IS USED FOR OTHER USES (FOR EXAMPLE USE WITH OTHER CIRCUIT BOARDS OR SOFTWARE) OR (E) THE HARDWARE HAS NOT BEEN MAINTAINED OR USED IN ACCORDANCE WITH THE USER DOCUMENTATION. UNLESS PROHIBITED BY LAW, THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, THE IMPLIED WARRANTY OF MERCHANTABILITY, OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING OR OF PERFORMANCE, CUSTOM OR USAGE OF TRADE. 3M DOES NOT WARRANT THAT THE SOFTWARE WILL FUNCTION ERROR FREE.

If within one year after shipment, the Hardware does not conform to the express warranty set forth above, 3M’s sole obligation and User’s sole remedy shall be, at 3M’s option: 1) to repair or replace the non-conforming component; or, 2) refund the purchase price.

LIMITATION OF LIABILITY

UNLESS PROHIBITED BY LAW, 3M WILL NOT BE LIABLE TO USER OR OTHERS FOR ANY OTHER DIRECT, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES INCLUDING, FOR EXAMPLE, LOST PROFITS, BUSINESS, INVESTMENTS, OR OPPORTUNITIES EVEN IF 3M HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. The parties agree that 3M’s total cumulative liability to User for direct damages for all causes shall not exceed One Hundred Dollars, or the price paid for the Hardware, whichever is higher. Some states or countries may have laws which require liability rights different from those stated above. In such state or countries, the minimum required liability terms shall apply.

To request service, you must request a Returned Material Authorization (RMA) number from the service center. Please call 1-800-328-1671.

3M Food Safety - Product and Service Information

3M Product Information: www.3M.com/foodsafety

(US) 1-800-328-1671

Outside the US +1 651-575-5589

To obtain warranty service, contact an official 3M Food Safety Representative.

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**eMatrix Medical Vault
Relationships to Document**

Product Name	Type	Description

Part Name	Description

Project Name	Description

eMatrix Document Relationships

Document Name	Description	Revision

Supporting Documents
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