Frequently Asked Questions
Lab Equipment - MycoFog

General Questions

1. What is MycoFog® ?

MycoFog® is an advanced **biodecontamination system** that uses **hydrogen peroxide (H_2O_2) fogging** to eliminate microbial contamination from incubators, workstations, and other enclosed spaces.

2. What reagents can I use with MycoFog® ?:

- **MycoFog® H_2O_2 reagents** (our approved reagent for optimal performance):

MycoFog® reagent, 4 bottles + 4 wicks. For incubators <200L	MFR-1Bx-K
MycoFog® reagent, 4 bottles + 4 wicks. For incubators >200L and <350L	MFR-2Bx-K
MycoFog® reagent, 2 bottles + 2 wicks. For incubators >350L and <500L	MFR-3Bx-K
MycoFog® reagent, 2 bottles + 2 wicks. For incubators >500L and <700L.	MFR-4Bx-K
MycoFog® reagent, 2 bottles + 2 wicks. For incubators >700L and <1000L.	MFR-5Bx-K
MycoFog® reagent, 2 bottles + 2 wicks. For incubators >1000L and <1200L.	MFR-6Bx-K

- **Other compatible H_2O_2 solutions can be used** (but please ensure proper concentration and purity). ***Please note that MycoFog® has not validated other H_2O_2 formulations for use with the MycoFog® instrument, so at this time we do not have supporting data except for the MycoFog® reagent.***

In the EU, Spray Oxy Pae® is approved by MycoFog® for use in the ***MycoFog®*** **fogger. You may also make your own reagents. Please contact us for instructions and formulae**

3. How often should I perform a MycoFog® decontamination cycle?

For optimal contamination control, we recommend performing a **MycoFog® cycle once per month per incubator**.

Setup & Operation

4. How do I prepare MycoFog® for a decontamination cycle?

- **Ensure your Incubator is clean! The MycoFog® biodecontamination process complements cleaning but does not replace cleaning. Please consult your incubator operating manual for the manufacturer's cleaning protocol**
- **Ensure the incubator is empty** (remove cultures, labware, and water pans).
- **Set the temperature to 45°C** (or use the **37°C protocol for 4 hours**).
- **Disable gas control** (CO_2 and humidity settings).
- **Place MycoFog® on the at mid-level inside the incubator** for optimal fog distribution.
- **Press the function button** to start the cycle.

5. How long does the MycoFog® cycle take?

- **Standard Cycle:** 180 minutes at **45°C**
- **37°C Protocol:** 4 hours for **<200L chambers**, 5 hours for **larger chambers**

6. Can I use MycoFog® in large incubators?

- Yes! There are 2 Instrument models of **MycoFog®**
  - Model MF-2D for Incubators up to <500L internal volume
  - Model MF-500D for Incubators >500L but <1200L internal volume

- MycoFog® reagents come in 6 different pack sizes, each reagent formulation is designed for a size of Incubator/Glovebox/Workstation:

- Take care to order the correct **MycoFog®** Reagent pack for your Instrument

	Table to help Customers choose the right MycoFog® products			
MycoFog®	Incubator or Workstation to be decontaminated- Internal Vol (L)	MycoFog® Instrument needed	MycoFog® Reagent Kit Product code needed	MycoFog® Starter Kit needed
	<200L	MF-2D	MF-1Bx-K	MF-2D-SK-1Bx
	>200L<350L		MF-2Bx-K	MF-2D-SK-2Bx
	>350L<500L		MF-2Bx-K	MF-2D-SK-3Bx
	>500 <700L	MF-500D	MFR-4Bx-K	MF-500D-SK-4Bx
	>700 < 1000L		MFR-5Bx-K	MF-500D-SK-5Bx
	>1000L <1200 L		MFR-6Bx-K	MF-500D-SK-6Bx

7. What is the recommended relative humidity before starting a cycle?

- MycoFog® works best when the incubator's **starting relative humidity is ambient**. Turn off (active) or remove (passive) humidification functions
- The device **achieves proper humidity** during the cycle.

8. Can I use MycoFog® in an incubator that contains powered electronics?

- **Yes.** MycoFog® has been tested with electronic devices such as the **Etaluma Lumascope** and the Sartorius Incucyte which perform normally after **repeated decontamination cycles**

9. MycoFog® Instruments now come with a delayed start function

The new D-series MycoFog® instruments (MF-2D and MF-500D) include two key safety enhancements:

- Press + Hold to Initiate: Instead of a short press, the decontamination cycle now requires a 1.5-second hold on the function button. This reduces the chance of inadvertently starting vaporization.
- 12-Second Delayed Start: After initiating the cycle, the instrument waits 12 seconds before H_2O_2 vaporization begins. The indicator light flashes slowly for 7 seconds, then rapidly for 5 seconds, and only then does fogging start. This gives users extra time to close both inner and outer incubator doors and reduces any risk of exposure to hydrogen peroxide vapor at the start of the cycle.

Troubleshooting

10. My MycoFog® instrument is not producing enough spray. What should I do?

- **Check the Wick:** Remove wick ensure it is **fully saturated** and reseat wick. Ensure the spring is in the wick holder and that the wick holder is seated properly.
- **Check the Reagent:** Ensure the correct amount is added and that only **MycoFog®**
  H_2O_2 reagent or an approved formulation is used.
- **Clean the Fogger:** Use a **cotton swab with vinegar** to clean the nebulizer element.
- **Charge the Battery:** Low power can reduce spray intensity—**fully charge before use**.

11. My MycoFog® stopped mid-cycle. How do I fix it?

- **Battery may be low**—recharge the unit.
- **Restart the device** by turning it off and on again.

12. The reagent is leaking—what should I check?

- Ensure the **reagent reservoir is properly sealed**.
- Confirm that the **instrument is level** and not tilted.

- **Do not overfill**—use only the recommended reagent volume.

Device Performance & Maintenance

13. How long does the battery last?

- A fully charged battery will perform approximately **about 5 cycles**.
- We recommend fully **charging the instrument before each use** if repeated uses are done on different days

14. Can MycoFog® operate while charging?

Yes, MycoFog® can function while connected to a power source How do I clean my MycoFog® instrument?

- After each use, **rinse the reagent reservoir with distilled water**.
- If fogging volume decreases, clean the **nebulizer disk with vinegar** and a cotton swab.
- Use a fresh wick for each cycle

15. How do I clean my MycoFog® instrument?

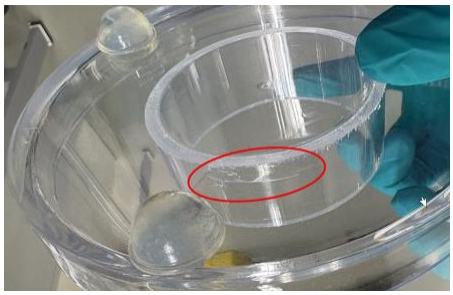
- After each use, rinse the reagent reservoir with distilled water.
- If fogging volume decreases, clean the nebulizer disk with vinegar and a cotton swab.
- Use a fresh wick for each cycle

16. What quality control checks are performed before shipping?

Each **MycoFog®** instrument is tested to ensure:

- **Proper flow rate** within the acceptable range
- **Residual reagent volume is within specification**

17. What happens if there cracks (fine inclusions that may appear as cracks) in the inner reagent compartment?



- **In plastic engineering parlance this is called 'crazing'.** This may be related to the manufacturing process and some adhesives used in the device. These inclusions do not result in leaking.

Validation & Compliance

18. Can MycoFog® be used in a GMP environment?

Yes! Our **solvent-resistant instrument labels** allow for **alcohol wipe-downs** before GMP suite entry.

19. How do I validate MycoFog's effectiveness?

Use an approved **Biological Indicator (BI's)** to confirm a **reduction** in microbial contamination.

Use only MycoFog® BI's or BI's specifically made for ambient pressure environments

Ordering & Support

20. Need More Help?

For troubleshooting, orders, or technical support, contact us at:
info@mycofog.com