

User Manual

Cleaning kit for BactoSense

General Information

Intended use

The Cleaning kit for BactoSense is a reagent kit used to deep-clean the BactoSense instrument. The reagents of the kit have been developed to clear biological and non-biological contaminations of the fluidic system of the instrument and the manual sampling device. Any attempt to clean with other chemicals or materials is the sole responsibility of the user.

Effectiveness

While the kit is effective against contaminations occurring from using the BactoSense according to its intended use, effectiveness against contaminations originating from other applications cannot be guaranteed.

Storage and shelf-life

Store the kit between 2 °C and 25 °C in the dark. Under such conditions, the shelf-life is one year.

Capacity

The reagents in the kit are sufficient to clear 5 biological and 5 non-biological contaminations.

Safety Information



Wear protective gloves

In case of skin contact, rinse immediately and abundantly with fresh water. In case of pain or irritation, consult a doctor.



Wear protective safety glasses

In case of eye contact, flush eyes immediately with flowing water for 10 – 15 minutes holding eyelids apart, and consult a doctor.



Warning

Some reagents are toxic or irritating. Wear protective equipment and do not ingest or inhale.



Corrosive

Some reagents are corrosive to metals.



Follow instructions

Carefully follow the instructions in this user manual and the BactoSense instruction manual.

Contents

Item	Quantity	SDS	Notes
Alcohol wipes	10	-	Single use. Discard after use according to local waste disposal regulations. More information can be found in the individual safety data sheets (SDS), which are provided by bNovate or your local distribution partner upon request.
Cleaning solution	5	50102	
Decontamination solution	5	50103	
Rinsing solution	10	50104	
Tube holder	2	-	Reusable

When to use the Cleaning kit


The cleaning kit is used when the fluidic system of the BactoSense or the manual sampling device are contaminated. The kit contains reagents to clear contaminations of biological origin (e.g. bacteria or other microorganisms), or non-biological contaminations (e.g. adsorbed inorganic substances).

Use the following table to decide which protocol to apply.

Indications	Protocol
<ul style="list-style-type: none"> • If the manual sampling device may have been contaminated due to improper storage. • After stopping in an error state with a loaded sample. • When facing a persistent biological contamination which can't be cleared with cleaning procedure using the Washstation. 	<p style="text-align: center;">→</p> <p>Follow the protocol described on page 3: Biological Contamination</p>
<ul style="list-style-type: none"> • If the needle of the manual sampling device has visible deposits. • If <i>High baseline in SSC</i> or <i>Air bubble detection</i> warnings frequently appear. • If the electronic noise in the dotplots is much higher than usual (i.e. exceeds 4 on the FL1 axis). 	<p style="text-align: center;">→</p> <p>Follow the protocol described on page 4: Non-Biological Contamination</p>

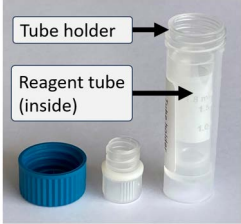


Biological Contamination

The reagents and protocols described in this section have been developed to clear biological contaminations of the BactoSense instrument and the manual sampling device.

 The duration of this protocol is approximately 20 minutes. It requires one *Alcohol wipe*, one *Decontamination solution*, one *Rinsing solution* and one *Tube holder*.



Carefully follow the instructions and wear protective gloves and glasses when handling reagents.

1. Make sure the manual sampling device is tightly installed on the BactoSense.
 2. Take one of the *Alcohol wipes* from the Cleaning kit, remove the wipe from its packaging, and wipe the needle of the manual sampling device from top to bottom to remove contaminants. Then let the needle dry for 30 seconds.
 3.
 - Remove one of the *Decontamination solution* tubes and one *Tube holder* from the Cleaning kit.
 - Remove the cap of the *Decontamination solution* tube and from the *Tube holder*.
 - Insert the opened *Decontamination solution* tube into the *Tube holder*. Important: Insert the entire tube, not just the reagents (see image).
 - Attach the *Tube holder* containing the *Decontamination solution* tube to the manual sampling device.
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4. On the BactoSense user interface, navigate to the *Home menu* and from there select the *Manual mode* and press *Start*.
 5. From the available protocols, select *Prime* in the *Protocol* column, and configure *two* replications in the *Replications* column.
 6. Press *Next* and *Start* to run the protocols.
 7. After completion of the two *Prime* processes, remove the *Tube holder* and discard the inserted *Decontamination solution* tube.
 8.
 - Remove one of the *Rinsing solution* tubes from the Cleaning kit.
 - Remove the cap of the *Rinsing solution* tube.
 - Insert the opened *Rinsing solution* tube into the *Tube holder*. Important: Insert the entire tube, not just the reagents (see image above).
 - Attach the *Tube holder* containing the *Rinsing solution* tube to the manual sampling device.
 9. On the BactoSense user interface, either press the *New* button, or navigate again to the *Home menu* and from there select the *Manual mode* and press *Start*.
 10. From the available protocols, select *Prime* in the *Protocol* column, and configure *two* replications in the *Replications* column.
 11. Press *Next* and *Start* to run the protocols.
 12. After completion of the two *Prime* processes, remove the *Tube holder* and discard the *Rinsing solution* tube.
 13. Close the *Tube holder* with its cap and place it back in the Cleaning Kit box.
 14. The decontamination sequence is now completed.
 -  If you wish to measure a sample, attach the sample to the sampling device and first perform *two Prime* processes. This ensures the highest accuracy of your results.
 -  If you don't plan to measure samples, attach a clean empty tube or the Washstation to the sampling device. Don't forget to perform *two Prime* processes prior to measuring your next sample.

Non-Biological Contamination

The reagents and protocols described in this section have been developed to clear non-biological contaminations of the BactoSense instrument and the manual sampling device.

- i** The duration of this protocol is approximately 3.5 hours. It requires one *Alcohol wipe*, one *Cleaning solution*, one *Rinsing solution* and one *Tube holder*.



Carefully follow the instructions and wear protective gloves and glasses when handling reagents.

1. Make sure the manual sampling device is tightly installed on the BactoSense.
2. Take one of the *Alcohol wipes* from the Cleaning kit, remove the wipe from its packaging, and wipe the needle of the manual sampling device from top to bottom to remove contaminants. Then let the needle dry for 30 seconds.
3.
 - Remove one of the *Cleaning solution* tubes and one *Tube holder* from the Cleaning kit.
 - Remove the cap of the *Cleaning solution* tube and from the *Tube holder*.
 - Insert the opened *Cleaning solution* tube into the *Tube holder*. Important: Insert the entire tube, not just the reagents (see image).
 - Attach the *Tube holder* containing the *Cleaning solution* tube to the manual sampling device.
4. On the BactoSense user interface, navigate to the *Home menu* and from there select the *Manual mode* and press *Start*.
5. From the available protocols, select *Prime* in the *Protocol* column, and configure *two* replications in the *Replications* column.
6. Press *Next* and *Start* to run the protocols.
7. After completion of the protocols, wait *3 hours*.
8. Afterwards, remove the *Tube holder* and discard the inserted *Cleaning solution* tube.
9.
 - Remove one of the *Rinsing solution* tubes from the Cleaning kit.
 - Remove the cap of the *Rinsing solution* tube.
 - Insert the opened *Rinsing solution* tube into the *Tube holder*. Important: Insert the entire tube, not just the reagents (see image above).
 - Attach the *Tube holder* containing the *Rinsing solution* tube to the manual sampling device.
10. On the BactoSense user interface, either press the *New* button, or navigate again to the *Home menu* and from there select the *Manual mode* and press *Start*.
11. From the available protocols, select *Prime* in the *Protocol* column, and configure *three* replications in the *Replications* column.
12. Press *Next* and *Start* to run the protocols.
13. After completion of the three *Prime* processes, remove the *Tube holder* and discard the *Rinsing solution* tube.
14. Close the *Tube holder* with its cap and place it back in the Cleaning Kit box.
15. The decontamination sequence is now completed.
 - i** If you wish to measure a sample, attach the sample to the sampling device and first perform two *Prime* processes. This ensures the highest accuracy of your results.
 - i** If you don't plan to measure samples, attach a clean empty tube or the Washstation to the sampling device. Don't forget to perform two *Prime* processes prior to measuring your next sample.

