Biofilm-Removing-System from ALPRO MEDICAL

Booklet
User Guide



ALPRO® ALPRO MEDICAL GMBH
Sicher. Sauber. ALPRO.

IMPORTANT INFORMATION
Health and Safety Considerations

Before implementing the Biofilm-Removing-System (BRS®), please read the enclosed instructions carefully!

Familiarize yourself with Safety Data Sheet as per Health and Safety Legislation.

Wear goggles, masks and gloves during the biofilm removing process!

Make sure the room where the procedure of removal takes place is well ventilated!

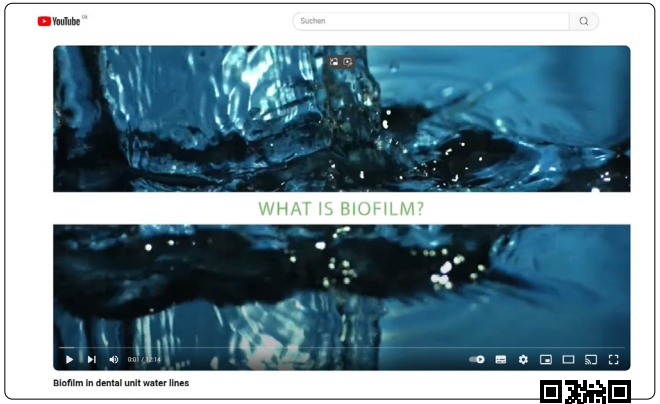
Always adhere to local Health and Safety regulations in your workplace.



Alpron, Bilpron and BRS® Introduction

Prior to starting the process, we recommend watching the youtube interview about the importance of using the correct methods for successful biofilm removing and the follow up protocols enhancing the longevity of the results.
In case of additional questions, contact the area representative of Alpro products.

Biodegree Pty Ltd
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https://www.youtube.com/watch?v=A1hOkEWiq6o
(Biofilm in dental unit water lines)

https://www.youtube.com/watch?v=zEC-VX-7zgU
(Biodegree | Educational video)

Biofilm-Removing StarterSets

We recommend you perform the procedure on a Friday afternoon.

Important:
We recommend the clean water bottle is disinfected weekly with BC-San 100. BC-San 100 is not included in the BRS® StarterSet.
Please call us to order BC-San 100, REF 3199



Alpron StarterSet (PM)



BRS® StarterSet 3 (PM)

Check your StarterSets to ensure all components are present. Please contact your local distributor of ALPRO Products if anything is missing.
Have you got all these items in your StarterSet?

Alpron StarterSet (PM) REF ???? -PM

- 1 L Alpron concentrate
- 1 L Bilpron concentrate
- 1 Sachet of BRS® PreCleaner (10g)
- 50 ml of BRS® Remover 3 (PM)
- 1 Mixing Jug (2 L), Funnel & Storage Canister (5 L) with dispenser tap
- 12 Bottles of BC-San 100
- ALPRO Biotest incl. evaluation sheet

BRS® StarterSet 3 (PM) REF 3213 -PM

- 1 L Bilpron
- 10 g BRS® PreCleaner
- 50 ml BRS® Remover 3 (PM)

(Application only by qualified personnel)

Surgery Preparation

1. Remove all instruments from the dental unit such as syringes, turbines, motors, scalers and others to prevent them from clogging from dislodged biofilm pieces.

2. **Remove all water filters.**

3. Turn pressure on and up for all outlets. Be aware that dead plumbing connections on dental units can harbor biofilm. When completing the BRS® process all outlets must be ‘on’ with the water flow turned up. If any outlets don’t work, are blocked or tips cannot be removed these can hinder the BRS® process.



Are you using all your outlets?
Dead legs on dental units can harbour biofilm. When completing the BRS® process all outlets must be ‘on’ with the water flow turned up. If any outlets don’t work, are blocked or tips cannot be removed these can hinder the BRS® process.

Step 1
Using the BRS® Pre-Cleaner





1. Empty the BRS® PreCleaner into the mixing jug.
2. Fill up to the 2-liter mark with HOT tap water (at 50°C). Use a thermometer to ensure the correct temperature. Ensure you have a water source that can reach this temperature (you may need to boil a kettle).
3. Using the funnel, pour the solution into the unit water bottle, fill the bottle to 70 %.
4. Pull the instrument hoses and activate the foot switch intermittently running the solution via all instrument hoses. Operate the procedural water lines from the cup filler via the keypad. Carry out the flushing process until the reddish flushing solution flows out **clearly and without residues and chunks** and until the bottle is empty.
5. If at the end of running the solution through the hoses the visible residues of biofilm are still coming out, **repeat the cleaning process with another sachet of BRS® Pre-Cleaner until the coming out solution is just clear pink.**
6. Once all solution runs through the lines, leave it in tubes **for 15 mins** without flushing with water.
7. After 15 mins flush all remaining solution through the unit, switching between outlets. Remember to use all the mixed solution from the 2L mix even if it means refilling the bottle several times.

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Completed – Tick Here

Step 2
Using BRS® Remover 3 (PM)





Introduce the BRS® Remover 3 (PM) the same way

1. Rinse the mixing jug and the bottle with clear water to remove all traces of the BRS® PreCleaner.
2. Pour the BRS® Remover 3 (PM) into the mixing jug. Fill up to the 2 L mark with HOT water. (50 - 60 °C). Use a thermometer to ensure the correct temp. Ensure your water source can reach this temp. Make sure the mixture is of uniform colour.
3. Use the funnel to fill up the water bottle with the mixed blue BRS® Remover 3 (PM) solution.
4. Operate all outlets in turn to pump the solution into the water lines same way you did with the BRS® PreCleaner solution.
5. When the blue-colored solution comes out **without any residues at all outlets** of the instrument tubes and at the tumbler filler – stop the procedure and let BRS® Remover 3 (PM) take effect. **Repeat the step** with another bottle of BRS® Remover 3 (PM) solution **if the flushed-out solution still shows visible signs of biofilm.**
6. Leave the solution in place **for 20 mins**.
7. After 20 mins flush all remaining BRS® Remover 3 (PM) solution through the unit, switching between outlets. Remember to use all the mixed solution even if it means refilling the bottle several times.

Completed – Tick Here

Step 3
Final Disinfection with Bilpron

1. Rinse the bottle with clear water to remove all traces of BRS® Remover 3 (PM).
2. Fill the bottle with approx. 250 ml of Bilpron. Do not mix it with water!
3. Re-fit the water bottle to the unit. Flush a small amount of Bilpron through each outlet unit just until Bilpron (dark blue color) comes out through all outlets.
4. **Disinfect new water inlet filters (incl. surface filters)** with 70 % Isopropanol and install them.
5. Leave the solution inside the tubing **for min. 12 hrs** or over the weekend or longer.

Chairs treated with Bilpron **MUST NOT** be used for treatment of patients until the final flushing (Step 4, Page 8).



Additional important information:

To maximize the benefits of longevity and efficacy of BRS® Biofilm Removing System from Alpro Medical it is recommended to use Bilpron as a weekly routine treatment to prevent regrowth of the biofilm in the cleaned system. Refer to the instruction on how to use Bilpron as weekly disinfectant.
This procedure should also be performed on any chair that will not be used for an extended period (more than 48 hours).
In case of prolonged surgery shut down, Bilpron acts as a mothballing agent, protecting the chair for up to 3 months from regrowth of biofilm.
To complete the daily decontamination routine, use Alpron 1% as an additive to your procedural water to achieve the synergistic effect of all Alpro water management products and create the ultimate water protection from any biofilm.

Completed – Tick Here

Step 4
Removing Bilpron from the unit

This step is to be performed Monday if using the weekend method for routine disinfection, or when you are ready to re-activate a chair after mothballing.

Recommissioning the Chair for use

1. Fill your chair water bottle with Alpron 1 % solution and keep flushing out all Bilpron out of each outlet until the water is not blue anymore but looks clear.
2. Retest the unit using microbial biotester after 1 week of performing this protocol.

Please Refer to step 6 for instructions on how to mix the 1% Alpron solution.



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Step 5
Mixing daily additive Alpron 1%

Mix up the Alpron Daily Maintenance Solution at a 1 % concentration

1. Using the Alpron measuring cup add 50 ml to the 5 L storage canister or 10 ml to 1 L water bottle. (measuring ratios are included in the table on page 13)
2. Fill the canister or bottle to the 5 L/1 L mark with clean potable water (we recommend filtered water, but it depends on your local public water quality).
3. Label the canister with the date the mixture was made. We recommend only making enough Alpron for max 1 week of use. Ensure you rinse the container/bottle thoroughly with potable water before refilling with fresh Alpron solution.





Remember to conduct your post treatment Biotest after using the Alpron for 7 days (as mentioned in step 8, page 12).

Alpron is a continuous application product. Remember do not empty your bottle at night or at weekends. Leave diluted Alpron solution in the system continuously and follow the manufacturer‘s instructions.

Do not empty the bottle and invert.
Do not remove from dental unit, unless refilling.
Do not air purge.
Follow the guidelines proposed by the dental association if they have a different approach.
Please use fresh Alpron solution every day. Make sure the bottle is perfectly clean between refilling of Alpron solution.

Completed – Tick Here

Step 6

How to decontaminate the water bottle/container

Decontaminate and disinfect the water bottle and 5 Liter storage container using **BC-San 100** from Alpro Medical. Ask your representative about **BC-San 100**. To reduce the possibility of reintroducing bacteria to the system coming from the contaminated water bottle this protocol should be performed **weekly.**

BC-San 100 is not included in the BRS® StarterSet (PM). BC-San 100 packs of 12 can be purchased separately from your distributor.

1. Use a small amount of BC-San 100 solution on a clean paper towel and wipe the external surface of the bottle or storage container and the bottle's thread.
2. Pour around 100 ml of BC-San 100 into the clean water bottle, fill with potable water and leave overnight or at least 6 hours. This contact time will disinfect the bottle.
3. We recommend 2-bottle-approach, one bottle used and one spare disinfected bottle.
4. For the 5 Liter Storage Container:
   Add 2 bottles of BC-San 100 into the container and fill with potable water. Leave over night to disinfect the container.
5. After achieving the contact time discard the solution and rinse the bottle and the container with clean potable quality water. Your bottle and container are now disinfected and ready to use.



Completed – Tick Here

Step 7
Morning Surgery Actions/between patients

Morning Surgery Preparation Actions

Flush each line for 1 minute to **refresh** the Alpron solution in the dental unit water lines. Always flush between patients for 30 seconds, this is to ensure no oral bacteria is transferred between patients as anti-retraction valves have been shown to fail on a regular basis, so should be checked every month.

Check stock of Alpron solution & make fresh when required.



Completed – Tick Here

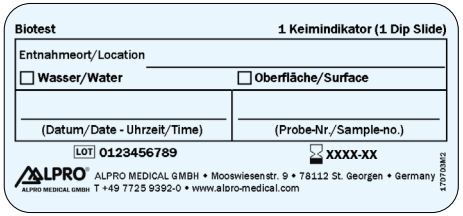
Step 8
Biotest dipslide

Please follow these steps to correctly use the Biotest to complete a water assessment. This test will inform you if the process has been successful. Compare this result to your pre-treatment result. Note that in some rare cases a particularly contaminated unit may require treating more than once, so if this result is still not classed as a pass call us immediately for advice.

Remember to conduct your Biotest after using the Alpron for 7 days.

Incubation of Biotest

We suggest incubation of Biotests at 20°C (approx. room temperature) for 3 – 5 days. Record your results for reference before transferring them to a dedicated log book or sheet. Always read your Biotest under a magnifying lamp.



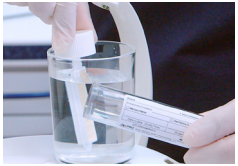
Microbial load test with Biotest in liquids (water):
Dip the culture medium of the slide (do not touch) into the liquid to be tested for at least 10 seconds and pay attention to wet both sides. Afterwards, put the dip slide back into the empty tube, close tightly and label. The evaluation is made (according to enclosed evaluation sheet) after 24 hours in the incubator at 35 – 40 °C respectively 3 – 5 days at room temperature.

a)





b)


Problems? Questions? Please contact your local distributor or directly Biodegree Pty Ltd at info@biodegree.com.au
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Alpron Mixing Chart

Mixing the Alpron solution to get a 1% concentration is crucial. Please refer to the chart below.

Mixed Solution (ml)	Alpron	Water	Mixed Solution (Ltr)
500 ml	5 ml	495 ml	0.5 Ltr
750 ml	7.5 ml	742.5 ml	0.75 Ltr
1000 ml	10 ml	990 ml	1.0 Ltr
1500 ml	15 ml	1485 ml	1.5 Ltr
2000 ml	20 ml	1980 ml	2.0 Ltr
2500 ml	25 ml	2475 ml	2.5 Ltr
3000 ml	30 ml	2970 ml	3.0 Ltr
3500 ml	35 ml	3465 ml	3.5 Ltr
4000 ml	40 ml	3960 ml	4.0 Ltr
4500 ml	45 ml	4455 ml	4.5 Ltr
5000 ml	50 ml	4950 ml	5.0 Ltr

Next Steps

Congratulations! You have successfully completed a Biofilm Removal on your chair!
Your post treatment Biotest should be clear or show a reduction in colonies. If so you are now ready to start routine monitoring of your chair quarterly with Biotest. Please log the results in a dedicated log book or sheet .
If for any reason your Biotest is a fail (100+ c.f.u) after a biofilm removal, please contact us on info@biodegree.com.au and we will guide you through what to do next.

Need help with any aspect of infection control? Get in touch with our compliance experts.

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