

Department	Form	Clinic
	Procedural water supply, basic cleaning and disinfection of procedural water lines of medical and dental units by use of the ALPRO-BCS (BottleCareSystem).	Valid from

Standard Operating Procedure: SOP

Procedural water supply, basic cleaning and disinfection of procedural water lines of medical and dental units by use of the ALPRO-BCS (BottleCareSystem).

This standard operating procedure replaces the version dated 11.06.2021

Purpose: This standard operating **procedure**, given by the company ALPRO MEDICAL GMBH, describes the procedure of cleaning and disinfection of procedural water lines of dental or oral-surgical units by use of the ALPRO-BCS, as well as the disinfection of pressure bottles.

Scope: This **standard operating procedure applies for all systems equipped with a ALPRO-BCS (BottleCareSystem).**

1. Abbreviations and terms:

BCS: BottleCareSystem

SOP: Standard Operating Procedure

2. Responsibility:

Mr/Ms

3. Implementation:

3.1 Devices, reagents and materials

- ALPRO-BCS
- Alpron 1 L bottle with measuring cap on the lid closure
- Bilpron 6 x 1 L in cardboard box
- measuring cup with scale (500 ml)
- funnel
- BC-San 100

3.2 Procedure

Following measures form the basis for an efficient functioning of the BottleCareSystem:

a) Prior to initial operation:

The service technician has to carry out a biofilm removal (cleaning and disinfection) of all water lines by use of BRS® (Biofilm-Removing-Set of ALPRO)

b) Routine operation:

Prior to start of work

1. *fill approximately half of the ALPRO-BCS pressure bottle with drinking water (according to local drinking water requirements).*
2. *add Alpron concentrate (measure with measuring cap and if necessary by means of a funnel) into the pressure bottle (15 ml for a 1.5 litre ALPRO-BCS pressure bottle).*
3. *fill the ALPRO-BCS pressure bottle with drinking water up to the mark. **
4. *the solution has to be mixed well.*

5. *screw the ALPRO-BCS pressure bottle containing the Alpron solution in the bottle holding fixture of the ALPRO-BCS.*
6. *pressurize the pressure bottle by operating the lever (position I) at the outside of the ALPRO-BCS.*
7. *flush all treatment water lines connected to the ALPRO-BCS (such as instrument tubes and tumbler filler) according to the dental unit manufacturer information for at least 2 minutes in order to flush out stale water/Bilpron.*
8. *now treatment can be started.*

Replacement of ALPRO-BCS pressure bottles:

9. *to change the pressure bottle, release the ALPRO-BCS pressure bottle only in pressurized condition until you hear that air escapes. Only then switch off compressed air (lever in position O).*
10. *take the pressure bottle counterclockwise out of the bottle holder and refill it as described under items 1–4 or replace it by a pressure bottle which has already been prepared with drinking water and Alpron (1%) (items 5–7).*

*** The Alpron ready for use solution has to be prepared freshly per working day.**

IMPORTANT INFORMATION: Please take care that the pressure bottle always contains sufficient drinking water mixed with Alpron. It should be checked after each patient. Ideally, there is always a second filled pressure bottle available.

c) After last treatment (lunch break/end of work)

1. *switch off compressed air from the pressure bottle (lever in position O)*
2. *at the beginning of the next working day empty the bottle. For this purpose, pressurize the pressure bottle (lever in position I) and proceed as described in Replacement of ALPRO-BCS pressure bottles (see above).*
3. *prepare fresh solution (see items 1–7 Routine Operation)*

d) At the end of the working week or prior to the beginning of holidays/break time disinfection

1. release the ALPRO-BCS pressure bottle in pressurized condition until you hear that air escapes. Only then switch off compressed air from the pressure bottle (lever in position 0).
2. remove and empty the pressure bottle.
3. then clean and disinfect the riser tube and the bottle holding fixture with e.g. MinutenWipes or with a suitable cellulose wipe soaked with undiluted BC-San 100.
4. fill the ALPRO-BCS pressure bottle for break disinfection with Bilpron up to the "max. Bilpron" mark.
5. screw in the pressure bottle with Bilpron clockwise into the bottle holder.
6. pressurize the ALPRO-BCS pressure bottle by operating the lever (position I).
7. now operate all water-bearing instrument tubes and if necessary, also the tumbler filler until Bilpron visibly comes out (blue liquid).
8. switch off compressed air (lever in position 0) and leave the ALPRO-BCS pressure bottle at the bottle holder (non-pressurized).

Bilpron may remain in the dental unit for the weekend but also for longer standstill periods (e. g. during holidays, minimum for 12 hours – maximum for 3 months)

Prior to restart:

e) Cleaning and disinfection of ALPRO-BCS pressure bottle and ALPRO-BCS connecting system with BC-San 100

1. *The screw threads of the ALPRO-BCS pressure bottles in use, as well as the bottle holding fixture at the BottleCareSystem are to be cleaned and disinfected thoroughly per working day/at the end of the day with MinutenWipes or with e. g. a cellulose wipe soaked with undiluted BC-San 100.*
2. *Processing the inner surfaces of the pressure bottle: to disinfect the inner surfaces of the ALPRO-BCS pressure bottles pour the complete contents (100 ml) of BC-San 100 into the empty ALPRO-BCS pressure bottle and fill it up with drinking water to the beginning of the screw thread (max. water).*
3. *Contact time: At least 6 hours, ideally overnight or over the weekend.*
- 4.1 *During the contact time, we recommend attaching the ALPRO-BCS pressure bottle to the holder of the water supply tank as usual (see the red note*).*
- 4.2 *Other ALPRO-BCS pressure bottles, which will be used, must be filled as described in point 2 and have to be closed with a screw cap (included in the scope of delivery) to prevent contamination through the air.*

***ATTENTION:**

Do not pressurize the ALPRO-BCS pressure bottle with compressed air (4.1) during its disinfection!

5. *Before restarting the process water supply system, dispose of the contents of the pressure bottle via the waste water. Then fill the disinfected pressure bottle 1/3 with drinking water, shake and empty. Repeat this process 1 time. Then proceed as under 3.2 b.*

Note:

The used ALPRO-BCS pressure bottles must be cleaned and disinfected on a weekly basis with BC-San 100 (Biofilm protection).

Observe the expiry date of the ALPRO-BCS pressure bottle!

Do not use the ALPRO-BCS pressure bottle after the stated expiry date

Documentation of measures carried out

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Records regarding the disinfection of procedural water lines during breaks			
Day of disinfection	Responsible	Initials	Germ test carried out on

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If you need a new maintenance book, please call Tel. No.: +49 7725 9392-0			

