

Exigo and Exigo EOS

Intended use

The Boule Cleaning Kit is intended for internal cleaning of the Exigo and Exigo EOS Veterinary Hematology Systems. The kit contains 3 different cleaning solutions as indicated on their labels. Using this cleaning kit at the stated regular intervals will ensure:

- Longer lifetime of instrument tubing
- Lower background counts
- Increased mean time between failure (higher MTBF)

Contents

- Enzymatic Cleaner, 450 mL, blue-colored solution
- Hypochlorite Cleaner; 450 mL, yellow-colored solution
- Detergent Cleaner, 450 mL, red-colored solution

The contents can be used for three full and complete cleaning cycles. Remaining cleaning solution should be disposed of.

Storage and stability

The Boule Cleaning kit can be transported at ambient temperature (avoid freezing, allow adaption to room temperature before use). Always store the bottles in an upright position to avoid any leakage from the cap.

Cleaning Interval

Use this kit once a year to clean your Exigo System, or as directed by local distributor.

Procedure

It is very important that the cleaning procedure is performed in the correct order (*or it may result in high PLT background counts*). The following order must be followed:

- 1) Enzymatic Cleaner (enzyme solution - blue cap)
- 2) Hypochlorite (2% solution - white cap)
- 3) Detergent Cleaner (detergent solution - red cap)

Proceed as follows:

1. Firstly, remove all reagent tube assemblies from the reagent containers.
2. Press [MENU] on the touch screen, then [ADVANCED], then [MAINTENANCE], and then [CLEANING MENU] to enter the Cleaning Menu.
3. Press [CLEAN CYCLE EMPTY] and wait for the system to empty.
4. Wet a soft tissue with the proper cleaning solution (*e.g. the first time use Enzymatic Cleaner*) and wipe all reagent tube assemblies clean on the outside. Then insert all reagent tube assemblies directly into the cleaning solution bottle.
5. From Cleaning Menu press [CLEAN CYCLE FILL]. Allow the system to fill up with the cleaning solution and wait 15-30 minutes for the cleaner to work.
6. Remove all reagent tube assemblies and press [CLEAN CYCLE EMPTY]. Allow the system to empty completely.


7. Repeat step 4 to 6 using the Hypochlorite (white) followed by the Detergent Cleaner (red).
8. Finally take a soft tissue and wet it with Diluent (**not** Lyse) and wipe off any remaining cleaner from the reagent tube assemblies. Make sure that a soft and dry tissue is used to dry the reagent tube assemblies from all remaining liquid. When reagent tube assemblies are clean insert them back into the original reagent containers. (Be sure not to interchange the Diluent, Lyse, System Cleaner and EOS (if available) reagent tube assemblies.)
9. From Cleaning Menu press [CLEAN CYCLE FILL], wait until this cycle is completed.
10. The background count should not exceed the recommended values, which is stated in the User manual. Perform a minimum of 3 background counts before analyzing the next sample.

Notes

- As the volume in the cleaning bottles will decrease during the cleaning cycles, be sure to secure the bottles to avoid tilting.
- During the described cleaning process above, some foaming might occur on the aspiration needle. Remove foam with a soft tissue.
- In case of heavily contaminated systems, it is recommended to warm the detergent to 45-55 °C prior to cleaning the system.
- It is recommended to check calibration by running a control after cleaning.

Precautions

- Please read the relevant Safety Data Sheet (SDS) before use. SDSs are available at www.boule.com.
- Hypochlorite (2%) Cleaner is classified as hazardous to health according to the CLP [Regulation (EC) no 1272/2008]. The required labeling is given below. See the SDS for detailed information.

Hazard Pictogram:	
Signal Word:	Warning
Hazard statements:	H315 causes skin irritation. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements:	P273 Avoid release to the environment. P280 Wear protective gloves and eye protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P501 Dispose of contents and container to authorized waste disposal facility.

Instructions for use for Exigo Boule Cleaning Kit



- Detergent Cleaner and Enzymatic Cleaner are not considered hazardous to health. See SDS for detailed information. Required labeling: **EUH210** Safety data sheet available on request. **EUH208** Contains REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2HISOTHIAZOL-3-ONE (3:1). May produce an allergic reaction.
- Handle all the cleaning solutions with proper care. Protect skin and eyes.
- Since hypochlorite solutions are oxidizing with a basic pH, avoid contact with materials other than those indicated in the instructions (spills give a remaining smell on e.g., skin and stain (bleaching) on clothes etc.).
- The concentration of hypochlorite decreases with time without invalidation of the functionality within the given expiry. Close the container as soon as possible after use.
- Cleaners should only be used before stated expiration date.
- The cleaners should be disposed of according to local regulations. When draining through the sewage system, always use plenty of water.

ORDERING INFORMATION AND SERVICE

Contact your local distributor for orders and support. Please have the product number ready for orders. For other assistance contact Boule Medical AB at phone +46 8 7447700 or visit www.boule.com

Ordering no:	Description	Packaging
1504111	Boule Cleaning Kit	3 x 450 ml



Boule Medical AB
Domnarvsgatan 4
SE-163 53 Spånga, Sweden
E-mail: info@boule.com
www.boule.com



Exigo H400

Intended use

The Boule Cleaning Kit is intended for internal cleaning of the Exigo H400 Veterinary Hematology System. The kit contains 3 different cleaning solutions as indicated on their labels. Using this cleaning kit at the stated regular intervals will ensure:

- Longer lifetime of instrument tubing
- Lower background counts
- Increased mean time between failure (higher MTBF)

Contents

- Enzymatic Cleaner, 450 mL, blue-colored solution
- Hypochlorite Cleaner; 450 mL, yellow-colored solution
- Detergent Cleaner, 450 mL, red-colored solution

The contents can be used for three full and complete cleaning cycles. Remaining cleaning solution should be disposed of.

Storage and stability

The Boule Cleaning kit can be transported at ambient temperature (avoid freezing, allow adaption to room temperature before use). Always store the bottles in an upright position to avoid any leakage from the cap.

Cleaning Interval

Use this kit once a year to clean your Exigo System, or as directed by local distributor.

Procedure

It is very important that the cleaning procedure is performed in the correct order (*or it may result in high PLT background counts*). The following order must be followed:

- 1) Enzymatic Cleaner (enzyme solution - blue cap)
- 2) Hypochlorite (2% solution - white cap)
- 3) Detergent Cleaner (detergent solution - red cap)

Proceed as follows:

1. Firstly, remove all reagent tube assemblies from the reagent containers.
2. Press [Main menu] on the touch screen, then [Maintenance], and then the arrow [>] to enter the Cleaning Menu.
3. Press [Clean Empty] and [OK]. Wait for the system to empty.
4. Wet a soft tissue with the proper cleaning solution (*e.g. the first time use Enzymatic Cleaner*) and wipe all reagent tube assemblies clean on the outside. Then insert all reagent tube assemblies directly into the cleaning solution bottle.
5. Press [Clean Fill] and [OK]. Allow the system to fill up with the cleaning solution and wait 15-30 minutes for the cleaner to work.
6. Remove all reagent tube assemblies and press [Clean Empty] and [OK]. Allow the system to empty completely.


7. Repeat step 4 to 6 using the Hypochlorite (white) followed by the Detergent Cleaner (red).
8. Finally take a soft tissue and wet it with Diluent (**not** Lyse) and wipe off any remaining cleaner from the reagent tube assemblies. Make sure that a soft and dry tissue is used to dry the reagent tube assemblies from all remaining liquid. When reagent tube assemblies are clean insert them back into the original reagent containers. (Be sure not to interchange the Diluent, Lyse, System Cleaner and EOS (if available) reagent tube assemblies.)
9. From Cleaning Menu press [Clean Fill] and [OK], wait until this cycle is completed.
10. The background count should not exceed the recommended values, which is stated in the User manual. Perform a minimum of 3 background counts before analyzing the next sample.

Notes

- As the volume in the cleaning bottles will decrease during the cleaning cycles, be sure to secure the bottles to avoid tilting.
- During the described cleaning process above, some foaming might occur on the aspiration needle. Remove foam with a soft tissue.
- In case of heavily contaminated system it is recommended to warm the detergent to 45-55 °C prior to cleaning the system.
- It is recommended to check calibration by running a control after cleaning.

Precautions

- Please read the relevant Safety Data Sheet (SDS) before use. SDSs are available at www.boule.com.
- Hypochlorite (2%) Cleaner is classified as hazardous to health according to the CLP [Regulation (EC) no 1272/2008]. The required labeling is given below. See the SDS for detailed information.

Hazard Pictogram:	
Signal Word:	Warning
Hazard statements:	H315 causes skin irritation. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements:	P273 Avoid release to the environment. P280 Wear protective gloves and eye protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P501 Dispose of contents and container to authorized waste disposal facility.

- Detergent Cleaner and Enzymatic Cleaner are not considered hazardous to health. See SDS for detailed information. Required labeling: **EUH210** Safety data sheet available on request. **EUH208** Contains REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2HISOTHIAZOL-3-ONE (3:1). May produce an allergic reaction.
- Handle all the cleaning solutions with proper care. Protect skin and eyes.
- Since hypochlorite solutions are oxidizing with a basic pH, avoid contact with materials other than those indicated in the instructions (spills give a remaining smell on e.g., skin and stain (bleaching) on clothes etc.).
- The concentration of hypochlorite decreases with time without invalidation of the functionality within the given expiry. Close the container as soon as possible after use.
- Cleaners should only be used before stated expiration date. The cleaners should be disposed of according to local regulations. When draining through the sewage system, always use plenty of water.

ORDERING INFORMATION AND SERVICE

Contact your local distributor for orders and support. Please have the product number ready for orders. For other assistance contact Boule Medical AB at phone +46 8 7447700 or visit www.boule.com

Ordering no:	Description	Packaging
1504111	Boule Cleaning Kit	3 x 450 ml

