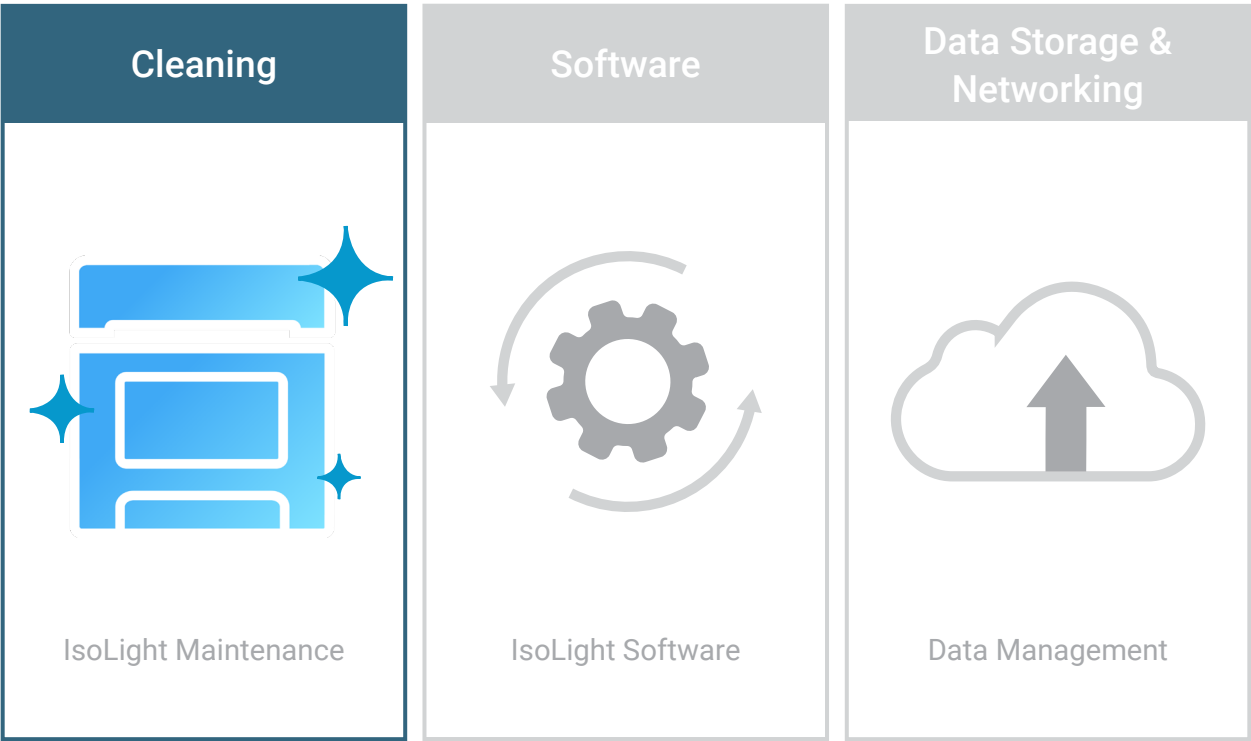


IsoLight Reusable Cleaning Kit Protocol

CRITICAL: Please read and follow this protocol precisely. Failure to do so could result in damage to your instrument.

LEGAL DISCLAIMER: BRUKER IS NOT RESPONSIBLE FOR ANY INSTRUMENT DAMAGE THAT MAY RESULT FROM FAILURE TO PROPERLY FOLLOW THIS PROTOCOL.



Contents

A. Overview	
Overview of Protocol	2
Safety Warnings	2
IsoLight Cleaning Types and Required Frequencies	3
Required Reagents, Consumables and Equipment	3-4
B. Protocol	
Procedure	4-6

A. Overview

1. Safety Warnings

- Read MSDS documents of all materials prior to use.
- Laboratory workers should wear standard PPE, including disposable gloves, protective eyewear, and laboratory coats.

2. IsoLight Cleaning Types and Required Frequencies

Maintenance Type	Frequency
Maintenance Clean	Every 2 weeks Timer resets after each 8-chip run or cleaning run
Deep Clean	Once a month

IsoLight Maintenance Clean

The maintenance clean takes 1.5 hours to complete and should be performed once every 2 weeks. This 2-week timer is reset by an 8-chip run or cleaning run.

IsoLight Deep Clean

The instrument deep clean takes 3.5 hours to complete and should be performed monthly.

3. Required Reagents, Consumables and Equipment

Reusable Cleaning Kit Components Available From Bruker

Product Name	Components	Catalog Number
IsoLight Reusable Cleaning Tube Set	8x 50 mL conical tubes 2x 15 mL conical tubes 10x sippers	ISOCODE-1701-8
IsoCode Reusable Cleaning Chips	8x cleaning chips	ISOCODE-1800-8

Required Consumables Not Available From Bruker

Equipment	Comments
Sodium Hypochlorite Solution	Must be 0.1% or greater. Must be laboratory-grade purity
Water	Must be laboratory-grade purity
Serological Pipettor	
Serological Pipette	10 mL and 50 mL

Required Equipment

Equipment	Source	Catalog Number
IsoLight	Bruker	ISOLIGHT-1000-1

C. Protocol

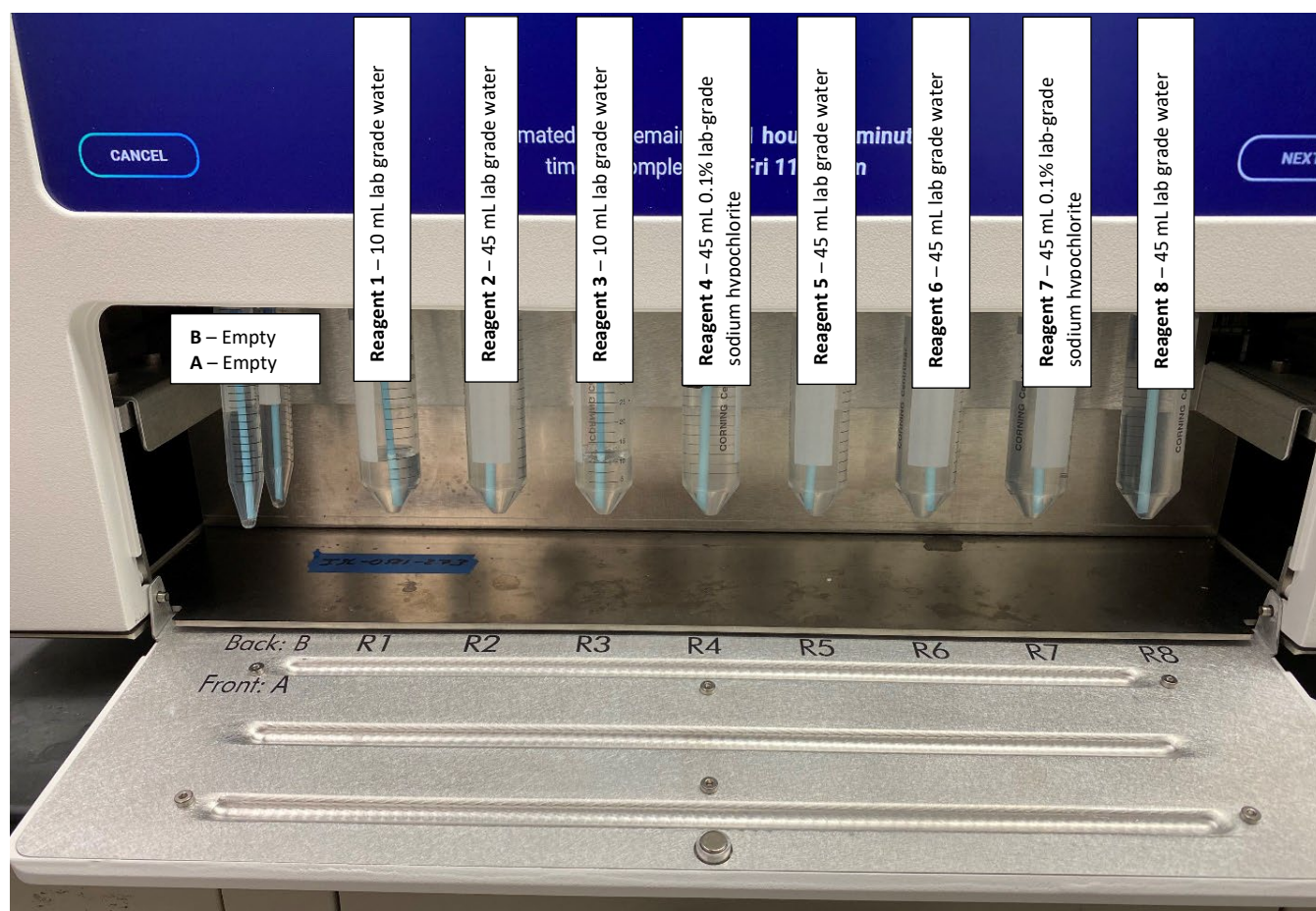
Procedure (Maintenance Clean and Deep Clean)

- **NOTE:** The 50ml conical tubes included in the kit are not interchangeable with other 50ml conical tubes located within the lab.
 1. Prepare laboratory grade 0.1% sodium hypochlorite solution using laboratory-grade water, ensuring that the final volume of the solution is at least 100 mL.
 - 1.1. For example, starting with a 5% laboratory-grade sodium hypochlorite stock solution, add 2 mL of laboratory grade 5% sodium hypochlorite to 98 mL laboratory-grade water.
 - 1.2. Volumes are dependent on stock concentration.
- **WARNING:** It is critical the lab-grade sodium hypochlorite solution is 0.1%.
 - 1.3. Mix by pipetting the solution up and down 3-4 times.
- 2. Fill cleaning tubes labeled Reagent 4 and Reagent 7 with 45 mL of the prepared 0.1% laboratory grade sodium hypochlorite solution in each tube using a 50 mL serological pipette. These conical tubes are labeled WITH CORROSIVE STICKERS (pictured).
- **WARNING:** Lab-Grade Sodium hypochlorite should ONLY be dispensed in tubes with corrosive stickers.
 3. Fill cleaning tubes labeled Reagent 2, Reagent 5, Reagent 6, Reagent 8 with 45 mL of laboratory-grade water in each tube using a new 50 mL serological pipette. These conical tubes are not labeled with corrosive stickers.
 4. Fill cleaning tubes labeled Reagent 1 and Reagent 3 with 10 mL of laboratory-grade water in each tube using the same 50 mL serological pipette as previous step. These conical tubes are not labeled with corrosive stickers.
 5. Select **Clean Instrument** from the user interface and select the clean you want to run.



6. Insert tubes in the following positions:

- 6.1. **TIP:** Insert tubes using method shown to the right by placing sipper inside reagent tube first, then attaching sipper followed by screwing on reagent tube.
- 6.2. The two 15 mL conical tubes (empty) go in tube positions A and B.
- 6.3. The two 0.1% lab- grade sodium hypochlorite tubes with corrosive labels go in tube positions R4 & R7.
- 6.4. The two 10 mL lab-grade water tubes go in positions R1 & R3.
- 6.5. The four 45 mL lab grade water tubes go in positions R2, R5, R6, & R8.
- **WARNING:** Double check the tube positions! Failure to do so may result in damage to your instrument.



7. Follow the on-screen prompts to insert Reusable Cleaning Chips and begin the cleaning run.
 - 7.1. Please note in on-screen step 4 of 7, reagents from the Reusable Cleaning Kit are also compatible for the remaining cleaning steps.
 8. Wait for completion and proceed according to on-screen messages.
 9. Remove all conical tubes and dispose remaining liquids per laboratory protocols.
 10. Wash out tubes and sippers with laboratory grade water. Empty any remaining liquid in tubes after washing.
 - 10.1. Separate the sippers that have been submerged in the tubes with the lab-grade sodium hypochlorite from the ones submerged in the lab-grade water by immediately placing the sippers back into the corresponding labeled tubes.
- **NOTE: Do not use a dishwasher to clean the tubes and the sippers as the labels will deteriorate if doing so.**
 - **NOTE: Do not dispose of any tubes or sippers.**
11. Completely dry tubes and place back inside original box with sippers inside each tube, caps can be discarded after the first use. Close lid of box for storage.
- **NOTE: Reusable Cleaning Tube Set lasts the duration of a year from first use! Do not dispose of tubes or sippers.**
- TIP: In order to help keep track of the kit's lifespan, it is recommended to notate date of first use as kit components last up to 1 year.**