

CombiFlash[®] NextGen 100 Preventative Maintenance

Overview

This document covers the preventative maintenance required for the CombiFlash NextGen 100 system.

Preventative Maintenance Tasks

Component	Task	Interval
Pump Seal	Replacement Part # 880257TL included in PM kit	Annually or when seal replacement message is displayed.
Lamp	Replacement Part# 605238159 included in PM kit	Annually
Drop Former	Alignment verification	Annually
Flow Cell	Flushing light level check	Monthly
Fraction Collector Tray	Cleaning	Monthly
Lamp Fan		
System Check	Run a universal verification test part# 605234317 included in PM kit	After maintenance or repairs are performed on the system.

Tools/Consumables Required

- $\frac{5}{32}$ " hex key
- #2 Phillips screw driver
- Small needle nose pliers
- Solvents for the universal test sample:
 - Normal Phase
-Hexane and Ethyl acetate
 - Reverse Phase
-Water and methanol
-Water Acetonitrile
- Solvents for the seal conditioning:
 - 1.5 liters 50% water/IPA or 50% water/methanol

Pump seal replacement

Follow the instructions that are included with the Pump seals.

Lamp replacement

Follow the instructions that are included with the lamp.

Fraction Collector Tray

The racks are grounded through the conductive fraction collector tray so it must be kept clean. To clean the fraction collector tray, simply wipe it off monthly with alcohol and a soft cloth.

Priming and Flushing the System

After the seal and lamp replacement using the MANUAL CONTROL screen in the TOOLS menu:

1. Install a bypass tube.
2. Pump 75 mls of the solvent B to be used during the universal test sample run through the column and flow cell.
3. Pump 75 mls of the solvent A to be used during the universal test sample run through the column and flow cell.
4. Verify light levels are in the green while pumping the solvents.
5. The system is ready to run the universal verification test.

Universal Verification Test

Follow the instructions that are included with the Universal Verification kit and verify:

- Drops are not hitting the sides of the test tubes.

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