

DIONEX GUARDCAP H

QuickStart Guide

1. Setup of Dionex AS-DV



NOTE

The standard sample transfer line in the Dionex AS-DV autosampler should be replaced with a shorter, reduced volume line to make optimum use of the ion exchange capacity of the Dionex Guardcap H vial caps.

Instructions for replacing the transfer line can be found in the Dionex Guardcap H Product Manual (Doc No. 065705), available online at <http://www.thermofisher.com>

1.1. If the injection valve is mounted in a Dionex AS-DV

- A. Install a new, reduced volume sample transfer line that has been shortened to **35 cm** (P/N 22120-60051).
- B. Set the Dionex AS-DV sample delivery volume to **175 µL** in the instrument method/program.
- C. Set the Dionex AS-DV loading mode to **Concentrator Mode** and delivery speed to **1.0 mL/min** in the instrument method/program.

1.2. If the injection valve is mounted in an IC system

- A. Install a new, reduced volume sample transfer line that has been shortened to **70 cm** (P/N 22120-60055).
- B. Set the Dionex AS-DV sample delivery volume to **350 µL** in the instrument method/program.
- C. Set the Dionex AS-DV loading mode to **Concentrator Mode** and delivery speed to **1.0 mL/min** in the instrument method/program.

2. Filling the Dionex PolyVials and installing Dionex Guardcap H vial caps

- A. Weigh 6.1-6.4 g sample/vial and install the Dionex Guardcap H vial cap using the flat end of the installation tool so the cap is flush with the top of the vial. Note that this amount of sample is above the top of the vial tray. The top of the Dionex Guardcap H vial cap must be flush with the top of the Dionex PolyVial in order for the vial to be properly sensed by the autosampler. The backpressure applied by the user to install the Dionex Guardcap H vial cap is higher than when installing a filter or plain cap. This is normal since Dionex Guardcap H contains ion exchange resin in the pores of the filter.
- B. After installation of the Dionex Guardcap H vial cap, invert the vial to confirm that no air bubble is freely floating under the cap.
- C. Before loading the vial into the carousel, shake off any liquid that has been forced into the cap socket. Do not use laboratory wipes to blot liquid from the cap sockets as wipes can leave fibers that can clog the liquid flow path and cause high backpressure.

Table 1 Reordering Information

| Part number | Description | Quantity |
|-------------|---|----------|
| 038008 | Dionex PolyVials, 5 mL | 250 |
| 302504 | Dionex Guardcap H vial caps, 5 mL | 125 |
| 302765 | Dionex Guardcap H vial caps, 5 mL (includes 70 cm sample transfer line) | 12 |
| 22120-60051 | 35 cm sample transfer line assembly for use with injection valves mounted in Dionex AS-DV | 1 |
| 22120-60055 | 70 cm sample transfer line assembly for use with injection valves mounted in IC systems | 1 |