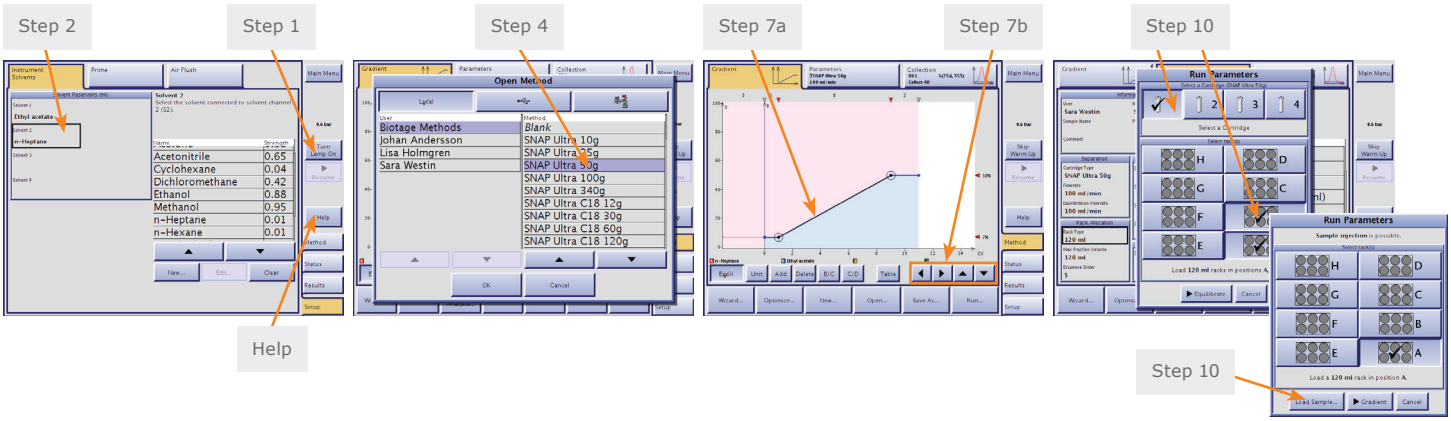
Isolera™ Quick Guide

Set Up and Start a Purification

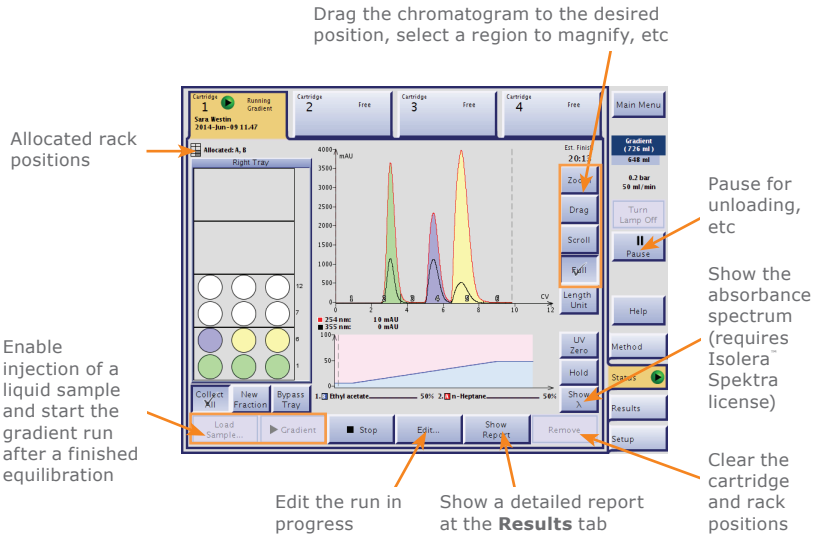
If using a stylus for data entry, ensure to use a stylus that is compatible with a capacitive touch screen.

1. If the UV lamp is turned off, press **Turn Lamp On**. The UV lamp has a 7.5 min warm-up time.
2. At the **Setup** tab, assign the solvents mounted on the system to the correct solvent inlets.
3. At the **Prime** tab, prime the system. Note that all solvent inlets must be primed with solvent.
4. At the **Method** tab, open a method by pressing **Open**.... You can choose from preconfigured methods based on various TLC conditions or on cartridge type and size.
5. At the **Parameters** tab, select the solvents, cartridge type and size, and rack type to be used.
6. At the **Collection** tab, select the collection and fractionation parameters.
7. At the **Gradient** tab, review the elution gradient. To modify, either use the gradient table (press the **Table** button) or:
   a. Drag either a segment or a node to the desired position, ±0.5 CV and ±5% resolution.
   b. Fine tune the gradient using the ▲▼ and ◀▶ buttons, ±0.1 CV and ±1% resolution.
8. Load the cartridge and rack(s) onto the system. Ensure that the tubing is securely attached; see “Tube Connections” on the next page.
9. Press **Run**.
10. In the **Run Parameters** dialog, select the cartridge (Isolera™ Four) and rack positions to be used. If a **Load Sample** button is available, press it to load your sample using the sample loading pump (Isolera™ LS). Note that the sample loading pump tube must be compatible with the solvents and sample to be used; see chapter 1 in the Isolera™ User Manual.
11. To start the equilibration or gradient run, press ▶.



Monitor, Control, and Unload

At the **Status** tab you can monitor, control, and edit the run, and when it is finished, unload and clear the cartridge and rack positions.



NOTE: Isolera™ Four EXP with an Isolera™ Spektra license is shown in all the screenshots unless otherwise indicated.

Biotage®

Rack Selection Guide

Based on 13 CV gradient in Collect All mode (with slope and valley fractionation disabled), the following apply:

- Requires one (1) rack of this type.
- Requires multiple racks of this type, but no rack change during the run. See the number of racks required in the table.
- Rack change required during the run. See the number of racks required in the table.
- Not recommended.

* Cannot be used on Isolera™ LS.
† Not recommended on Isolera™ LS.
‡ When using 53-ml test tubes.
§ Not recommended on Isolera™ Prime or Isolera™ Dalton systems when using the mass detector.
¶ Not available with Isolera™ Prime.
# Not recommended on Isolera™ Prime, Isolera™ One, Isolera™ Four, or Isolera™ Dalton systems.
** When two volumes are listed, the first is for SNAP KP-Sil and the second is for SNAP Ultra.

One Collection Tray

Rack Type	Cartridge Type (CV in ml**)							
	10g* (15/17)	25g* (33/45)	50g (66/90)	100g (132/164)	340g (470/590)	75M§ (528)	750g§ (990)	75L§ (1056)
13x100 mm†		2	2/3	4/5				
16x100 mm†		2	2/3	4/5				
18x130 mm†		2	2/3	4/5				
16x150 mm†			2	3				
18x150 mm			2	3				
25x150 mm‡			2	3				
120 ml			2	3				
240 ml					2	2		
480 ml					2	2		

Two Collection Trays

Rack Type	Cartridge Type (CV in ml**)								
	10g* (15/17)	25g* (33/45)	50g (66/90)	100g (132/164)	340g (470/590)	75M§ (528)	750g§ (990)	75L§ (1056)	1500g# (1980)
13x100 mm†		2	2/3	4/5	15/18	16			
16x100 mm†		2	2/3	4/5	13/16	15			
18x130 mm†		2	2/3	4/5	13/16	14			
16x150 mm†			2	3	8/10	9			
18x150 mm			2	3	9/11	10			
25x150 mm‡			2	3	8/10	9			
120 ml			2	3	9/11	10			
240 ml					2	2	3	4	6
480 ml					2	2	3	3	6

Tube Connections

System Differences
An Isolera™ Four system is shown in the left image. The tube connections are the same for all Isolera™ systems except for the following differences:

- Isolera™ LS has a sample loading pump. Use it according to the instructions in the user manual.
- Isolera™ LS, Isolera™ Prime, and Isolera™ One only have one cartridge position ("C1") and one waste channel.
- On some systems, the solvent inlets are located at the top of the system. Isolera™ Prime only has two solvent inlets.

Connect the supplied waste outlet tube to the "W" port (A) on the collection arm on Isolera™ LS or to the tube labeled "W/FC" (B) on Isolera™ Prime and Isolera™ One, and to a waste reservoir.

1) Connect the supplied solvent tubes to the inlets "S1"–"S4" (C) and reservoirs. 2) Connect the tube labeled "UV" to the port labeled "To UV" or "UV" (D). 3) Connect the tube labeled "W/FC" to the port labeled "From FC" or "FC/W" (E). Only on Isolera™ Four. 4) Connect the supplied waste outlet tubing to the waste ports "W1"–"W4" and reservoirs (F). Only on Isolera™ Four.

Part Number: 411830-L

Biotage®