

Biotage® Selekt Release Notes

What's New in Biotage® Selekt 1.2

Biotage® Selekt software version 1.2 includes the following new features and enhancements:

- » **Support for gradients including up to four solvents.**
- » **Full screen gradient graph.** The gradient graph can be expanded to full screen both at setup and during the run. In the expanded gradient view, you have access to all gradient features (enable/disable equilibration, add/remove solvent combinations, add/remove nodes and segments, and add/remove a modifier).

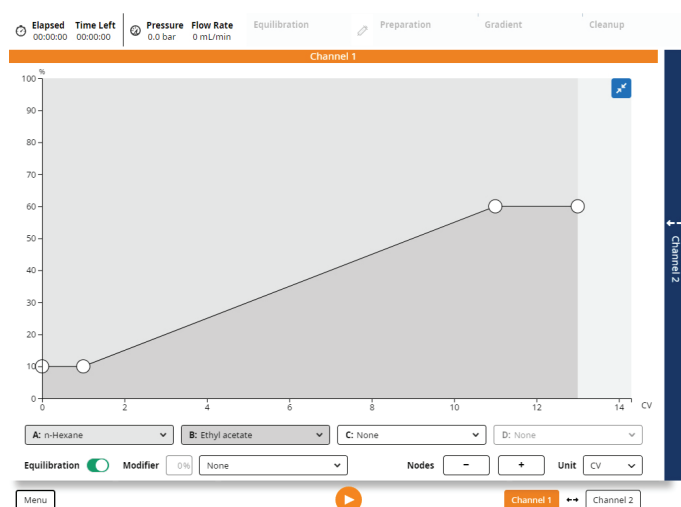


Figure 1. Full screen gradient with the option to use up to four solvents.

- » **Enhanced gradient table.** The gradient table can now be expanded both at setup and during the run, and contains buttons for adding and removing nodes and segments.

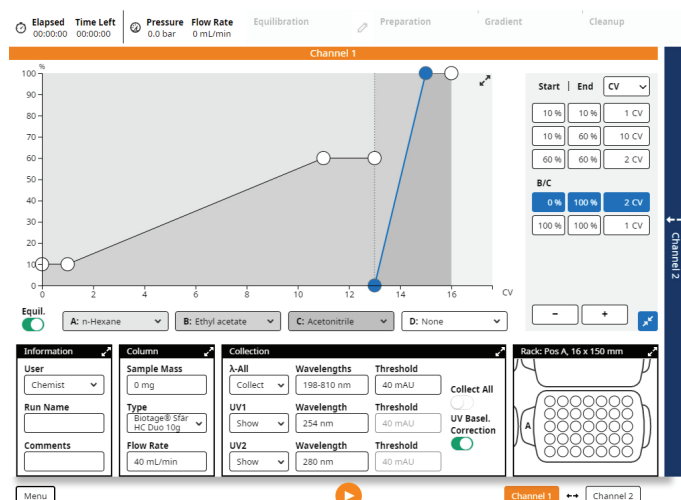


Figure 2. Expanded gradient table at the setup of a run.

- » **Manual UV zero.** At any time during the gradient run, it is possible to manually set the current UV absorbance level to zero AU.
- Note:** If a Spektra software license is installed on your system, the manual UV zero button is only enabled when the UV baseline detection is turned off.
- » **Toggle of Collect All during a run without pausing.**
- » **Zoom of the chromatogram when a run is paused.**
- » **Analysis view for finding your fractions.** This view shows the chromatogram and the rack(s). The chromatogram can be zoomed using the pinch-to-zoom feature, and the signals and the UV baseline correction (if used) can be disabled and enabled individually.

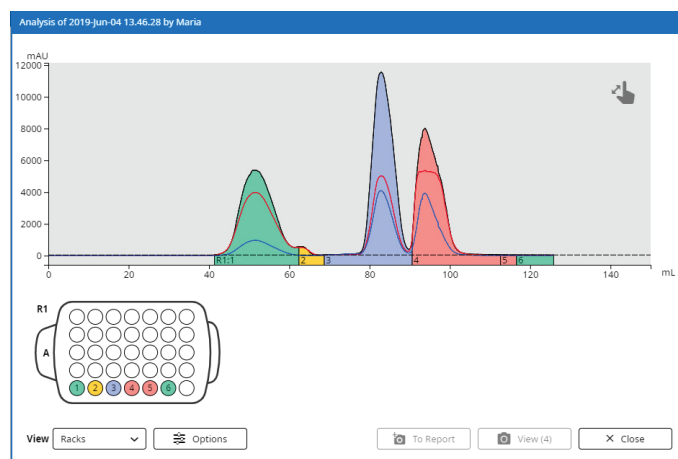


Figure 3. The Analysis view showing the chromatogram and the rack(s).

- » **Analysis view for analyzing the spectra.** (Requires a Spektra software license.) This view shows the chromatogram and an absorbance spectrum. Here you can:
 - » View the absorbance spectrum corresponding to any point in time of the chromatogram.
 - » View the absorbance curves for two custom wavelengths in the chromatogram.
 - » Zoom the chromatogram using the pinch-to-zoom feature.
 - » Enable and disable signals and the UV baseline correction (if used) individually.
- » **Add pictures from the analysis view to the report.** It is possible to add one or more pictures of the chromatogram with a changed zoom factor and/or enabled/disabled signals and UV baseline correction to the report. If a Spektra software license is installed, the spectrum is also included in the pictures.

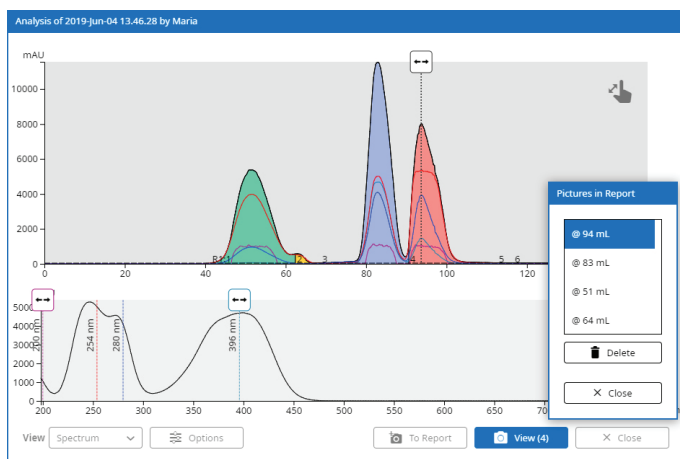


Figure 4. The Analysis view showing the chromatogram and the absorbance spectrum. Requires a Spektra software license.

- » **Add a note to the report after the run has been completed.**
- » **Customize reports.** It is possible to create a customized report where you can select what to include in the report.
- » **Improved layout of the report.** The layout is more compact and at the same time easier to read.



Figure 5. The Report Setup view.

Biotage® Selekt software version 1.2 includes the following bug fixes:

- » **Improved pump initialization behavior.**
- » **Corrected behavior of the UV baseline correction.**
- » **Corrected behavior of the progress bar.**
- » **Corrected spectrum timing.** In the previous version of the software, the data recorded in the spectrum result is 2.6 mL ahead of the chromatogram.
- » **Improved color marking of fractions in the chromatogram and racks.**
- » **Corrected behavior of the favorite-marking of reports (★) in the Results view.** In the previous version of the software, adding the report of the ongoing purification to your favorites will fill up the database.
- » **Not possible to set the EXT threshold to zero.** In the previous version of the software, it is incorrectly possible to set the threshold for the external detector to zero. Setting the threshold to zero resulted in the external detector signal disappearing from the chromatogram.

What's New in Biotage® Selekt 1.1

Biotage® Selekt software version 1.1 includes the following new features, enhancements, and bug fixes:

- » **Support for Biotage® Solvent Detector.**
The solvent detector can be used with the secondary solvent containment or the instrument tray, all three are optional accessories. When solvent is detected, the system is paused and all pump functionality disabled until the solvent detector is dry again.
- » **Support for external detector with analog output signal.**
- » **Modifier.** It is possible to add a fixed percentage of a modifier to the solvent mix.
- » **Solvent and waste estimation.** During the setup of a run, it is possible to view the estimated amount of solvents and waste capacity that is required for the run.
- » **Solvent and waste monitoring.** The system can maintain a running calculation of the fluid levels in the reservoirs based on information entered by the user. With solvent and waste monitoring enabled, the system will:
 - » Inform the user when there is not enough solvent or waste capacity for a run.
 - » Issue an on-screen notification when a solvent level is below 20% of the set capacity.
 - » Issue an on-screen notification when the waste level is above 85% of the set capacity.
 - » Pause the system when it is time to refill a solvent reservoir (when 10% is left) or empty the waste reservoir (when 95% full).
- » **Manual fractionation.** At any time during the gradient run, you can manually switch to a new collection vessel.
- » **Isocratic hold.** At any time during the gradient run, you can start or end an isocratic segment.
- » **View reports based on column ID.** The system is able to show all runs performed using a specific column based on its ID (QR).
- » **View reports based on rack ID.** The system can display the last run a Selekt rack was used for, if performed on the same system, or see what system it was last used on based on the rack's ID (RFID).
- » **Backup and restore the system database.** It is possible to create a backup of all results and registered solvents, column types, and user accounts.
- » **System statistics.** The following statistics are displayed in the maintenance view: the number of runs, run hours, lamp hours, pumped volume, and fraction arm distance.

- » **The light strip indicates the status of the system:**
 - » White: System idle or processing.
 - » Orange/blue: User interaction required for the run on channel 1/2.
 - » Green: Run completed.
 - » Red: System error.
- » **Corrected behavior of which channel that is displayed when creating a new run from a previous one.**
- » **Corrected behavior of the UV baseline correction.**
- » **Improved settings for the Biotage® Sfär C18 columns.**
- » **Improved accuracy of the time estimation for runs.**
- » **Improved feedback at the startup of the system.**
- » **Improved graphical user interface.**
- » **Improved fractionation stability.**
- » **Improved stability during long runs.**
- » **Improved report.**

Known Issues

- » Frequent fractionation may result in cluttered fraction numbering in the chromatogram.
- » When the user-defined maximum fraction volume is not set for a run, it is listed as zero in the report.

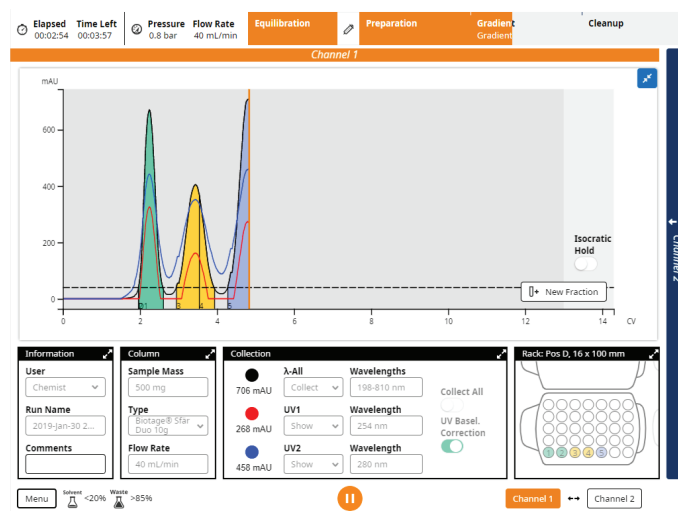


Figure 6. Run view with expanded chromatogram.