Tecan’s Freedom EVO® liquid handling platform and Fluent® Automation Workstation offer fully automated, parallel column chromatography using Repligen’s OPUS® RoboColumn® system, completely eliminating manual processing steps. Miniaturization and parallel processing help to save precious biologics and reagents, reducing costs and shortening development times for new therapeutics.

Tecan’s liquid displacement pipetting technology ensures successful parallel processing of up to eight RoboColumns held by the Te-Chrom™ module. The eluates are collected in microplates, and an optional shuttle system enables fraction collection. Large volumes of liquid can be drained directly to a waste container.

Explore our options for scalable, efficient and safe chromatography processing.
INTEGRATION OPTIONS

Te-Chrom Stand alone option for batch elution
Applications:
Sample prep for mass spec, binding studies, sample concentration, PAT

Te-Chrom with Te-Chrom Shuttle which holds the elution plate and allows to collect the RoboColumn flow through in fractions
Applications:
e.g. bioprocessing, method development, condition screening, resin screening, step gradient elution
Two mounting options for Te-Chrom shuttle:
A) Below the RoboColumns, gives space for a 9 position microplate carrier in the back
B) Behind the RoboColumns with plate shuttle extension

Te-Chrom with Te-Stack™ combines fraction collection with automated storage of up to 50 96-well elution plates.
Applications:
e.g. bioprocessing, method development, condition screening, resin screening, step gradient elution
FREEDOM EVOWARE® SOFTWARE

**Te-Chrom Wizard** – offers easy chromatography process set-up, from equilibration and sample addition to washing and elution.

**Buffer Creation Wizard** – easy definition of buffer compositions, stock solutions and labware, allowing the preparation of up to 96 individual buffers in just 10 minutes.

EXPLORE OUR FREEDOM EVO-BASED SOLUTIONS

**Antibody purification**
Affinity chromatography-purified antibodies can be quickly prepared for downstream MS analysis or binding studies.

**Step gradient elution**
Fully automated plate handling allows simultaneous step-gradient elution, enabling you to collect individual fractions and find the optimal separation conditions for your proteins.

**Condition screening**
Increase walkaway time and add automated data collection and analysis to your workflow using an integrated microplate reader.
OPTIONAL DEVICES

**Waste pump** - to transfer large liquid volumes from the Te-Chrom waste tray to the liquid waste container.

**Nine-position microplate carrier** - can be placed behind the Te-Chrom Shuttle.

**Spacer for shallow-well microplates** - adjusts to the same height as deep-well plates.

**Stainless steel fixed tips with conical ends** - designed to ensure a good seal with the O-ring of the RoboColumns. Available in two sizes:
- **Standard** - for all RoboColumn/elution plate combinations using Te-Chrom/Te-Chrom Shuttle.
- **Short** - for all RoboColumn/elution plate combinations using Te-Chrom, Te-Chrom Shuttle and Te-Chrom with Te-Stack.

*(NOTE: Tips cannot reach the bottom of 50 ml centrifugation tubes.)*

**Infinite® 200 PRO reader integration** - for absorbance measurements and protein quantification. Can be mounted on the left or right side, below the workdeck, or at the back of the Freedom EVO.

**Resting waste** - holds the waste option in position with magnetic fixings.

**1 ml syringes** - for pipetting volumes of up to 1 ml in a single stroke, with flow rates down to 16 cm/h.
INTEGRATION
Both the Te-Chrom and Te-Chrom Shuttle are mounted on a seven-grid wide deck segment which additionally holds three nests for microplates. The Te-Chrom Shuttle offers a choice of batch elution or fraction collection.

Suitable for applications such as bioprocessing, method development, condition screening, resin screening, step gradient elution, sample prep for mass spec, binding studies, sample concentration and PAT.

FLUENTCONTROL® SOFTWARE
Chromatography process set-up – from equilibration and sample application to washing and elution – is straightforward using FluentControl’s powerful and intuitive TouchTools™ touchscreen interface.
OPTIONAL DEVICES

**Waste pump** - to transfer large liquid volumes from the Te-Chrom waste tray to the liquid waste container.

**Spacer for shallow-well microplates** - adjusts to the same height as deep-well plates.

**Stainless steel fixed tips with conical ends** - designed to ensure a good seal with the O-ring of the RoboColumns. Available in two sizes:
- **Standard** - for all RoboColumn/elution plate combinations using Te-Chrom/Te-Chrom Shuttle.
- **Short** - for all RoboColumn/elution plate combinations using Te-Chrom, Te-Chrom Shuttle and Te-Chrom with Te-Stack.
  *(NOTE: Tips cannot reach the bottom of 50 ml centrifugation tubes.)*

**Infinite® 200 PRO reader integration** - for absorbance measurements and protein quantification. Can be mounted on the left or right side, below the Dynamic Deck™, or at the back of the Fluent.

**Resting waste** - holds the waste option in position with magnetic fixings.

**1 or 5 ml syringes** - for pipetting volumes of up to 4.8 ml in a single stroke, with flow rates down to 8 cm/h.