

Protein BioSolutions **ProteinMaker™**

Eliminate your bottleneck in bio-purification



PRODUCT OVERVIEW

The ProteinMaker® from Protein BioSolutions is an automated multichannel chromatography system designed for the parallel isolation and purification of protein, antibody, and DNA samples.

The system consists of a multichannel liquid handling manifold (12 or 24 channels), a xyz-robot system for sample collection, and an optional integrated UV-detection system (280 and / or 254 nm). A number of racks and accessories is available to manage the handling of the required buffers and samples. The ProteinMaker® allows to use chromatography columns / cartridges of any supplier.

The chromatography is performed by a liquid handling manifold using syringe pumps connected to a 9-port valve, which allows to deliver buffers and samples onto a chromatography column and to pick up eluted samples for further treatments from deep well plates on the fraction collector tray.

The xyz-robot system can be used with up to twenty 24- and 96-deep well plates (standard or high version), while one position is used as a waste collector. UV detection is performed with an individual cell per channel and the current LED technology provides sensitive detection at 280 and / or 254 nm. The signal can be used to switch to the next purification step in your protocol. The chromatograms are recorded and can identify the sample containing well on the collection tray and also to receive semi-quantitative information about your protein.

The software enables the user to write and run automated methods. Columns can be operated as individuals or in groups, and different methods can be applied to different groups while the methods still run simultaneously. In the manual mode you can perform maintenance of the instruments like cleaning, adjustments, etc.

PRODUCE MORE PROTEIN AND BE MORE FLEXIBLE

Evaluate gene expression levels

Analyze functions of different isotypes, clones, antibodies, etc.

Determine the best protein or enzyme purification method for scaling up

Purify antibodies via 2-columns using fully automated affinity chromatography with direct consecutive desalting

Simultaneous separation of up to 24 protein samples



Single or dual-wavelength detection
based on LED-technology
with 280 and / or 254 nm



Different options
to mount columns of various
sizes from any supplier



Manifold A
for elution from column

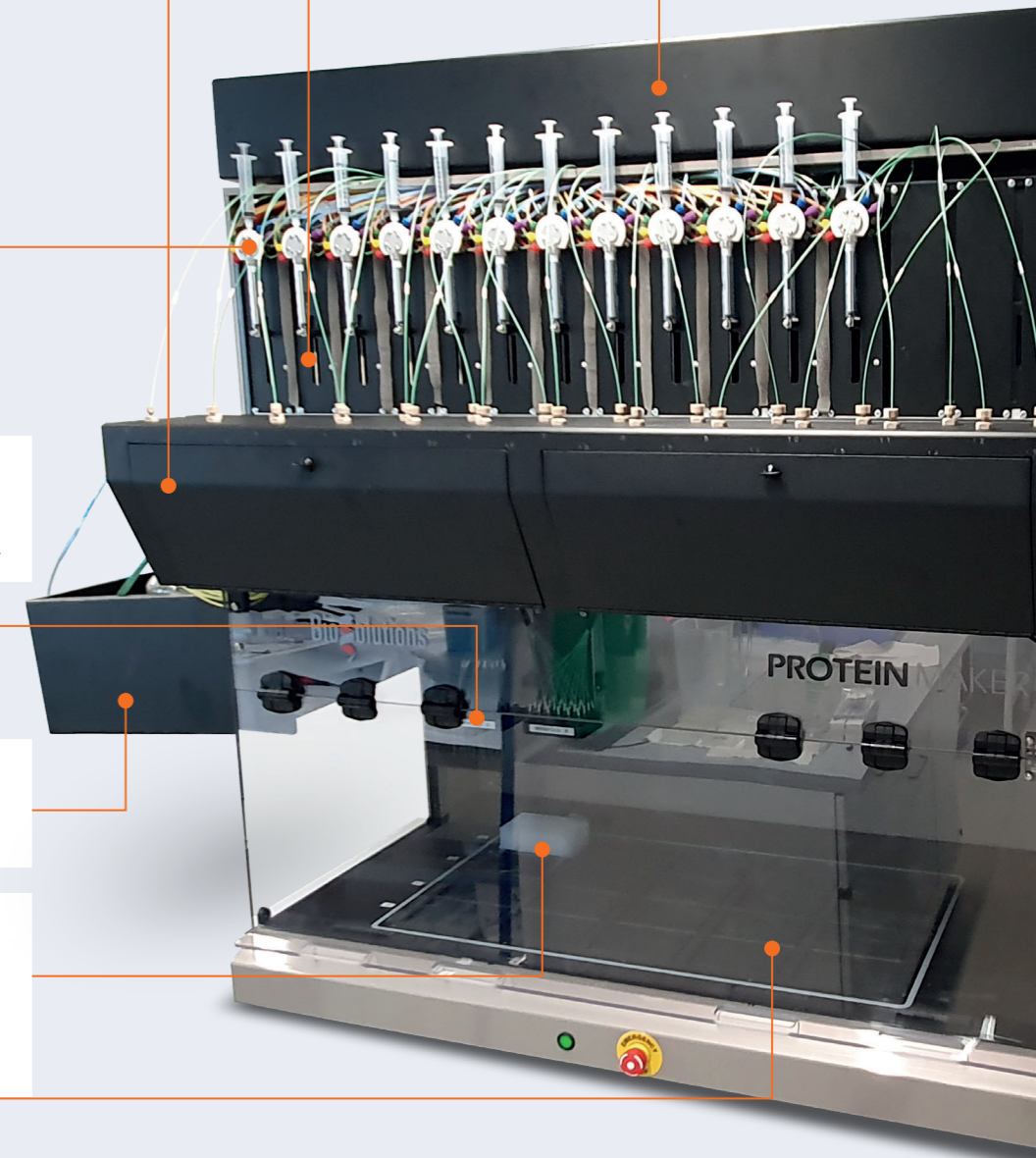
Manifold B
to pick up samples or to add reagents
or buffers to eluted samples



Dispensing syringe
with 9-port valve and mixing chamber -
dispensing syringes from 250 µl to 20 mL



Collection of large volumes
with flow through collector
into bottles possible



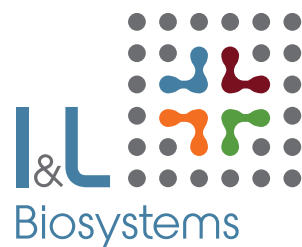
Check out the ProteinMaker video

Scan QR code or [click here](#)

Top rack
for buffer and / or sample container

Side rack
with options of different sample racks

Fraction collection plate
with 5 x 4 positions for standard or
high 24- or 96-deep well plate
(chilled deck available - alternatively
instrument can be used in cold room)



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