

Integrated fractionation system for polysome profiling

Density gradient formation station

1. Automatic preparation of a linear density gradient in 6 test tubes at the same time.
2. Possibility to program and save various linear gradients in the device's memory.
3. Compatibility with reagents used in molecular biology, in particular sucrose, Tris, MgCl₂, NaCl, KCl, EGTA and DTT.
4. Compatibility with the SORVALL WX Ultra Series centrifuge (46900 WX 80) and the Surespin 630 rotor (this device will be used for work at the Faculty of Biochemistry, Biophysics and Biotechnology which already has the above-mentioned centrifuge).
5. Compatibility with the electrical network and sockets in Poland.
6. Warranty min. 12 months.

Gradient fractionator with fraction collector

1. Automatic and programmable fractionator operation.
2. Automatic and programmable operation of the fraction collector feeding fractions into test tubes with a volume of 1.5 ml.
3. Equipment with two independent and user-replaceable 3-channel UV/VIS detection heads allowing (interchangeably) simultaneous and real-time detection of (1) absorbance at 260 nm and 280 nm and one fluorescence channel (Clover or mScarlet or Cy5) or (2) 260 nm and two fluorescence channels (Clover and mScarlet or Cy5).
4. Automatic recording of absorbance/fluorescence profiles.
5. Possibility of automated washing and drying of the system before and after each run.
6. Compatibility with the SORVALL WX Ultra Series centrifuge (46900 WX 80) and the Surespin 630 rotor (this device will be used for work at the Faculty of Biochemistry, Biophysics and Biotechnology which already has the above-mentioned centrifuge).
7. Compatibility with the electrical network and sockets in Poland.
8. Warranty min. 12 months.

Control software

Software enabling digital recording and control of all automated system elements.

Control station

1. Processor: min. 10-core CPU with 12 threads achieving a score of not less than 13637 points in the PassMark CPU Mark test http://www.cpubenchmark.net/cpu_list.php (as of October 20, 2023)
2. RAM min. 16GB
3. SSD disk min. 256GB
4. Compatibility with the electrical network and sockets in Poland.
5. Warranty min. 12 months.