

Semi-automated fractionation of gradient centrifugation tubes with siFractor

Upgrade liquid chromatography (FPLC/HPLC) systems for fractionation of any sample types

Why siFractor?

Manual fractionation of samples contained in centrifugation tubes is laborious, and error-prone. Parameters such as light absorbance are typically monitored from the isolated fractions, thus limiting resolution. Hence, precise isolation of the molecules of interest from the centrifugation tube without contaminations is hampered. Overcome these limitations with the siFractor.

Upgrade your FPLC/HPLC system for precise and semi-automated fractionation

The M6 threads on the siFractor facilitate connection to most FPLC/HPLC systems and allow you to exploit the full set of advantages provided by these host systems. The precise pumps of the FPLC/HPLC device allow a continuous displacement of the sample while simultaneously monitoring parameters such as conductivity or light absorbance. Fractionation via the host system provides utmost control to precisely collect your samples.

Rapid & leak-free fractionation of entire sample

Displacement of the sample with a dense chase solution allows harvesting of the entire sample without any residual volume. Improved pressure seals at the siFractor allow high flow rates (>4 ml/min) and rapid fractionation.

Fractionation with siFractor:

- ✓ Simple & Reproducible
- ✓ Precise & semi-automated
- ✓ Fast & leak-free

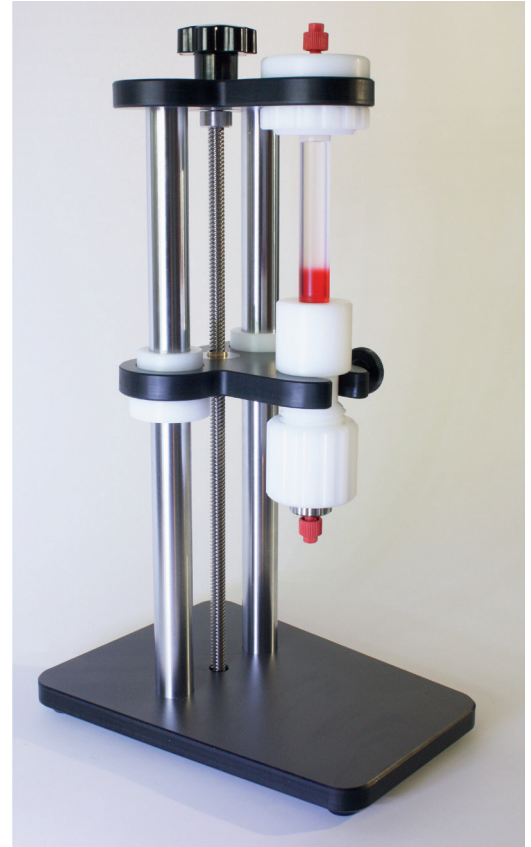


Image 1: Photograph of siFractor.

Product Information

siFractor

available with all necessary equipment (O-Rings, Needle, Luer Adapter, Union 1/16" f/M6 M) for SW 41, SW 28 and SW 55.

Equipment

Top holders and piercing units for different tube diameters are available, covering a range of different rotors.

Product Name	Cat. No.
siFractor SW41	eq-F001-FOSW41
siFractor SW55	eq-F001-FOSW55
siFractor SW28	eq-F001-FOSW28

Technical Details of siFractor

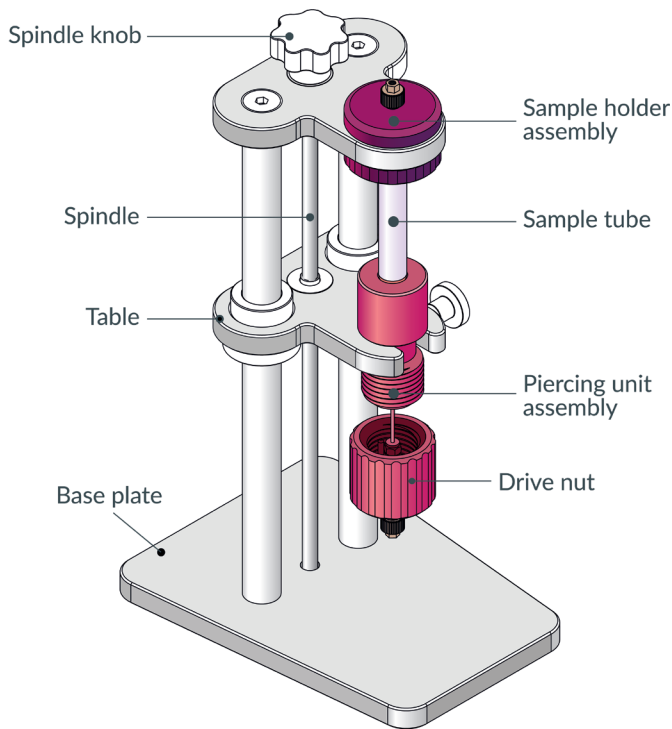


Figure 1: Technical drawing of the siFractor.

- ✓ top holder with high pressure seals allowing fractionation at high flow rates and high viscosity range
- ✓ top holders and piercing units available for different tube diameters
- ✓ Extra robust piercing unit and adjustable table engaging the sample tube
- ✓ M6 threads compatible with most FPLC/HPLC systems

Applications of the siFractor

Game changer for any application involving the fractionation of centrifugated samples

- Structural biology: Isolation of protein complexes and RNPs
- Exosome research: Purification of extracellular vesicles
- Translatome studies: Ribosome profiling (Ribo-Seq)

The reproducible purification of mono- or polysomes for sequencing of ribosome protected fragments is an essential step for high-quality ribosome profiling.

Figure 2 shows elution profiles of different samples.

[Download protocol from our website](#)

Ask for other Ribo-Seq products now.

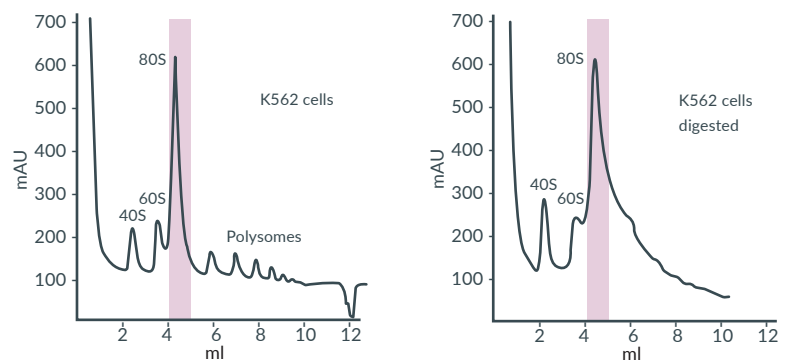


Figure 2: Representative gradient profiles of non-nuclease-treated (left) and RNaseI-treated (right) extracts from K562 cells, the fraction containing 80S monosomes is highlighted in pink.

Contact us at info@siTOOLS.de or +49 (0) 89 12501 4800

Find your local Distributor on our website www.sitoolsbiotech.com/distributors.php