



ULTRACENTRIFUGE

(mod. Optima XPN-100-IVD)

VENDOR: BECKMAN COULTER

YEAR OF ACQUISITION: 2023

SUPERVISING FACULTY MEMBERS: prof. Ilaria Zanotti;
prof. Francesca Zimetti

Technical features:

- Maximum speed: 100,000 rpm (802,000x g).
- Cold chamber temperature setting: 0-40°C.
- 10 acceleration profiles; 11 deceleration profiles.
- Rotor tracking system.
- Automatic safety control, with remote control.
- Remote monitoring and control available.
- Available rotors:
 - Type 90 Ti Fixed-Angle rotor, 8x13.5 mL, titanium: maximum volume 108 mL; maximum speed 90,000 rpm (694,000x g); 8 slots; for centrifugal volumes 2-13.5 mL
 - Type 70 Ti Fixed-Angle rotor, 8x39 mL, titanium: maximum volume 312 mL; maximum speed 70,000 rpm (504,000x g); 8 slots; for centrifugal volumes 4-39mL

Applications:

Isolation of proteins in biological samples; separation of cells in complex mixtures; fractionation and purification of molecular biology samples; determination of the molecular weight of various macromolecules.

Acquired for the Department of Excellence MUR 2023-2027