Rules and procedures for use of the FLOOR-STANDING REFRIGERATED ULTRACENTRIFUGE purchased under the MUR Department of Excellence Project 2023–2027

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Approved by the Department of Excellence Steering Committee on 03/09/2026

Approved by the Council of the Department of Food and Drug on 09/09/2026

Instrument description

Main technical specifications and equipment:

- Maximum speed: 100,000 rpm (802,000 × g).
- Operating temperature range of the centrifugation chamber: 0–40 °C.
- 10 acceleration profiles; 11 deceleration profiles
- Rotor control, identification and monitoring system.
- Automatic safety checks, including remote management.
- Network interface for remote control of the ultracentrifuge.
- Available rotors:

- **Fixed-angle rotor Type 90**, 8 × 13.5 mL, titanium: maximum capacity 108 mL; maximum speed 90,000 rpm (694,000 × g); 8 positions; sample volumes 2–13.5 mL

- **Fixed-angle rotor Type 70**, 8 × 39 mL, titanium: maximum capacity 312 mL; maximum speed 70,000 rpm (504,000 × g); 8 positions; sample volumes 4–39 mL

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

Authorised staff and trainers

Surname	First name	Dept./Centre	Contact
Papotti	Bianca	Dept. of Medicine and Surgery	0521-902970
Palumbo	Marcella	Dept. of Food Science	marcella.palumbo@unipr.it

The list of authorised staff is kept up to date and is available in **Annex 2** to these Rules.

Instrument access and use

1) ALIFAR Department research groups with authorised users may access the instrument through their own staff, subject to prior booking on the dedicated Teams platform managed by the Technical Contact. Groups without a designated contact may contact the relevant staff. Access remains subject to booking on the Teams platform. Use of the instrument without a booking will result in a charge for a full working day of eight hours. Use is restricted to staff who have completed the initial training (authorised staff and trainers) or have subsequently been trained by the trainers.
2) Users from other University departments and external users may contact the Scientific Supervisor by completing the analysis request form (**Annex 1**).

Fees

Three user categories apply to instrument usage fees:

1) ALIFAR users: academic and research staff of the University of Parma affiliated with the ALIFAR Department;
2) Internal users: academic and research staff of the University of Parma;
3) External users: researchers and operators from universities, research bodies and public or private institutions.

Type of application	**ALIFAR USER €/cycle**	**INTERNAL USER €/cycle**	**EXTERNAL USER €/cycle**
Ultracentrifugation	25	100	250

* for every 5 analyses ordered, the sixth is free of charge OR data processing costs are waived.

ALIFAR users who use their research funds to contribute to annual preventive maintenance and/or insurance contracts (*all risks*) or to pay for repairs will not be charged until their contribution has been offset in full.

Notes: Users are responsible for purchasing the consumables required for their experiments.
If users do not purchase them independently, consumables will be supplied by the ALIFAR Department at the invoiced purchase cost.

Annex 1. FLOOR-STANDING REFRIGERATED ULTRACENTRIFUGE ANALYSIS REQUEST FORM

to be emailed to authorised staff

Applicant details

INTERNAL USER AT THE UNIVERSITY OF PARMA
Dept./Centre:
Applicant:
Instrument user:
E-mail:
Telephone:

EXTERNAL USER
Organisation name:
VAT no./Tax code
Address:
Applicant:
Instrument user:
E-mail:
Telephone:

Information on samples and type of analysis

Number of samples to analyse (including replicates and blanks)	*e.g. 120 samples, or 50 samples in replicate + 10 blanks in replicate.*
Sample type (briefly describe, specifying the matrix)	*e.g. tryptic protein digest / aqueous methanol extract of plant material / etc.*
Risk factors	☐ flammable ☐ irritant ☐ acute toxicity ☐ harmful ☐ corrosive ☐ oxidising ☐ carcinogenic/mutagenic ☐ hazardous to the environment
Estimated analyte concentration (specify units)	*e.g. 100 ppb or 100 µg/kg*
Type of analysis requested	☐ ☐ ☐

Bookings may be cancelled up to the third working day before the requested date.

If the booking is not cancelled in time, the service will be charged even if it is not used.

Date …….

Applicant's signature (fund holder)

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Annex 2. Staff authorised to use the instrument

Authorised staff and trainers			
Surname	**First name**	**Dept./Centre**	**Contact**
Instrument users			
Surname	**First name**	**Dept./Centre**	**Contact**