



**ULTRA HIGH PERFORMANCE LIQUID  
CHROMATOGRAPH WITH PHOTODIODE ARRAY  
DETECTOR**

**(UHPLC-PDA; mod. Nexera)**

**VENDOR:** SHIMADZU ITALIA SRL

**YEAR OF ACQUISITION:** 2024

**SCIENTIFIC SUPERVISOR:** Prof. Gabriele Costantino

**Technical features:**

- Quaternary low-pressure gradient.
- Allowable maximum pressure: 700 bar (10,150 psi).
- Available pH range: 1-14.
- Column oven adjustable from ambient T°C-10°C to 85°C.
- Autosampler adjustable from 4 to 45°C.
- Autocampionatore termostatabile nel range 4-45°C.
- Samples for processing: 162 vials, 3 plates for 1.5 mL vials available.
- Photodiode array detector (PDA), with a wavelength range from 190 to 800 nm.
- Analytical flow cell.
- System parameters can be adjusted and monitored also by a system controller unit, able to manage up to 8 modules, without the need for a PC.
- Workstation for instrument control and data analysis with LabSolution software.

**Applications:**

- Analysis of compounds capable of absorbing in the UV/visible wavelength range.

***Acquired for the Department of Excellence MUR 2023-2027***