



Spectrometer-Based Microplate Reader (ELISA) (BMG LABTECH, Germany)

The innovative absorbance microplate reader offers flexibility to perform assays quickly and easily using either microplates or the built-in cuvette port.:

- Captures a full UV/visible spectrum in less than 1 sec/well.
- Quantification of DNA and RNA using small volume using as little as 2 μ L with the Lvis Plate feature (**Nano-drop like feature**).
- Simple push-button operation, and capacity to store individual assay protocols.
- Allows incubation at different temperatures with shaking.
- Comprehensive, and flexible software for analysis of results.

Other available Instruments:

- Rotary evaporator (Buchi, Switzerland)
- Ultrasonic water bath (Elmasonic, Germany)
- Shaking water bath (Thermo Scientific, USA)
- pH meter (Jenway, UK)
- Spinning mini centrifuge for PCR tubes/strips (Thermo Scientific, USA)
- Hot plate magnetic stirrer (Stuart- Cole Palmer, USA)
- Vortex mixer (Thermo Scientific, USA)
- Electronic digital balance (Boeco, Germany)
- Bench fee services are available for researchers and postgraduates.

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Cooling Centrifuge (Eppendorf, Germany)

Multipurpose refrigerated centrifuge with aerosol-tight rotor(s)

Available rotors:

- **Rotor for 1.5/2 ml tubes:**
Max speed: 20,000 × g (14,000 rpm)
Max. capacity: 24 × 1.5/2.0 mL tubes
- **Rotor for 15 mL/50 mL conical tubes:**
Max. speed: 7,500 × g (7,800 rpm)
Max. capacity: 6 × 15/50 mL tubes

Real Time PCR Step One Plus (Applied Biosystems, USA)

Applied Step One plus is a 4-color, 96-well real time PCR instrument, allowing the possible use of PCR strips or 96-well plates for high number of samples.

The System supports various real-time PCR applications, including:

- Gene expression profiling
- SNP genotyping analysis
- Non-coding RNA (e.g. MicroRNA and LncRNA) expression analysis
- High-quality quantitative PCR (qPCR) results



Triple Quadrupole LC-MS/MS (Shimadzu, Japan)

- The triple quadrupole LC-MS/MS equipped with a heated electrospray ionization (ESI) probe, offers superior performance and sensitivity to meet the demands of quantitative analysis in complex matrices including biological fluids, food, and environmental samples.
- The triple quadrupole mass analyzer can also be used for structural elucidation, as it provides information on fragmentation patterns.
- The system is additionally equipped with a photodiode array (PDA) detector for RP-HPLC/PDA analysis.