

Immune Monitoring

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Shared Resource: [Immune Monitoring](#)

Location: Steam Plant Building, S5-101

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Microplate Luminometer

The microplate luminometer from [Berthold, model Centro LB 960](#), has three injectors and is DLR-ready.

Equipment in the Immune Monitoring shared resource is open to all investigators. Operation training and on-site assistance are provided. Usage is on a first-come, first-served basis and no reservation is currently required. Please contact the core to set up training.

Spec

Detection devices	low-noise photomultiplier tube operated in single photon counting mode, spectral range 340 to 630 nm
Sample/plate formats	96- and 384-well plates filter membranes
Temperature control	up to 42°C
Shaking	3 modes, 3 velocities
Injection	up to 3 JET injectors variable volume 10 - 100 µL variable speed
Kinetics operation	minimum resolution 0.05 sec. maximum duration up to 7 days
Automation	
Performance	
Luminescence	<5 amol ATP per well <2 zmol Firefly luciferase per well
Crosstalk	1×10^{-6}
Dynamic range	>6 decades (PMT)
Injectors	accuracy better than 98% over entire volume range precision better than 98% over entire volume range

Recommended Uses: This instrument is well-suited for cellular luciferase assays.