

Technical Specifications – LSM710 Vertical

Objectives:

- o 5X/0.16 Plan-Neofluar. Brightfield (BF)
- o 10X/0.3 Plan-Apochromat. Brightfield (BF) and Nomarski (DIC I)
- o 25X/0.8 oil Plan-Neofluar. Brightfield (BF) and Nomarski (DIC II)
- o 40X/1.3 oil Plan-Apochromat. Brightfield (BF) and Nomarski (DIC III)
- o 63X/1.4 oil Plan-Apochromat. Brightfield (BF) and Nomarski (DIC III)

Other Objectives to be requested:

- o 100x /1.4 oil Plan-Apochromat. Brightfield (BF) and Nomarski (DIC III)
- o 25X/0.8 (Glycerol) Plan-Neofluar. Brightfield (BF) and Nomarski (DIC II)
- o 25X/0.8 (Water) Plan-Neofluar. Brightfield (BF) and Nomarski (DIC II)
- o 20X/0.5 (**dipping**) N-Achroplan. Brightfield (BF) and Nomarski (DIC II)
- o 40X/1.0 (**dipping**) Plan-Apochromat. Brightfield (BF) and Nomarski (DIC III)
- o 63X/1.0 (**dipping**) Plan-Apochromat. Brightfield (BF) and Nomarski (DIC III)

Microscope Fluorescence Filters:

- o DAPI (G365 FT395 420-470) ([Set 49 Zeiss](#))
- o CFP (426-446 FT455 460-500) ([Set 47 Zeiss](#))
- o FITC (BP450-90 FT 495 BP500-50) ([Set 38 Zeiss](#))
- o Cy3 (534-559 FT570 570-640) ([Set 43 Zeiss](#))

Optics: Brightfield, Nomarski and Fluorescencia.

Lasers:

- o Diode 405 nm
- o Argon (Ar) 458/488/514 nm
- o Helium Neon (HeNe) 543nm
- o Helium Neon (HeNe) 633nm

Confocal Detectors:

- o Spectral acquisition: [Quasar](#) + 2 PMTs
- o Detection Range: 370-760 nm

Software: Zeiss Zen2010B sp1