

LSM2 information

Name		LSM2
Make/Description		ZEISS AXIOVERT 200 with MICRORADIANCE LSM
Upright/Inverted		Inverted
Live cell support		Yes (incubation box, CO2 enrichment, 37 degrees)
Detection System		2-channel; one fluorescent with/without phase or brightfield. LSM: non-confocal transmission photodiode (x1) & confocal photomultipliers (x3)
Computer controlled	Time series	Yes
	Z-series	Yes
	Multiple wavelengths	Yes

OBJECTIVES

Position	1	2	3	4	5	6
Objective name	PLAN NEOFLUAR	PLAN NEOFLUAR	PLAN APO-CHROMAT	BLANK	BLANK	BLANK
Mag	X20	X40	X63	-	-	-
Contrast method	BF / Ph2 / DICII / FL	BF / Ph2 / DICII / FL	BF / DICIII / FL	-	-	-
Numerical Aperture	0.5	1.3	1.4	-	-	-
Cover glass thickness	0.17	0.17	0.17	-	-	-
Correction collar	No	no	No	-	-	-
Immersion liquid	Air	Oil	Oil	-	-	-

FILTER CUBES

Position =number on left of cube facing you)	fluorochrome	Zeiss Filter cube no	Colour of excitation	Colour of emission (approx)	Excitation wavelength	Dichroic beamsplitter	Emission wavelength
1	DAPI	02	Ultra-violet blue	Blue-red	G365	FT395	LP420
2	FITC	10	True blue	Green	BP450-490	FT510	515-565
3	GFP	13	Blue/green	Blue/green	470/20	FT493	505-530
4	CY3 / RHOD	15	Green	Red	BP456/12	FT580	LP590
5	blank						

LASER LINES

Laser	Line	Emission colour	
Laser 1 [Ar/Krypton]	488	green	Green FITC, Alex8, GFP*
	514	yellow	YFP
Laser 2 [Green HeNe]	543	red	CY3/TRITC

*note; green line on LSM2 not very good for Texas Red, better to use LSM1