

Zeiss AxioObserver.Z1/ Apotome Microscope

Filter Blocks and Fluorescence Dyes

Filter Number	Example Dyes	Excitation Filter	Beam Splitter	Emission Filter
47 CFP	CFP BV 421 Pacific Blue	BP 436/20	FT 455	BP 480/40
38 GFP	Alexa 488 FITC CY2 YFP	BP 470/40	FT 495	BP 525/50
63 mRFP	mRFP dsRed mCherry Texas Red	BP 572/25	FT 590	BP 629/62
20 Rhodamine	Rhodamine CY3 Propidium Iodide Alexa 555	BP 546/12	FT 560	BP 575-640
34 BFP	DAPI Alexa 350 Hoechst	BP 390/22	FT 395	BP 445/50

Objectives

Magnification	Type	Scaling Factor ($\mu\text{m}/\text{px}$)	Camera	Pixels / Image (1x1 Binning)
2.5x NA 0,075	PL NeoFluar	1,4 $\mu\text{m}/\text{px}$ 2,58 $\mu\text{m}/\text{px}$	ERc5s (color) MRm (mono)	2560 x 1920 1388 x 1040
10x NA 0,3	PL NeoFluar	0,35 $\mu\text{m}/\text{px}$ 0,65 $\mu\text{m}/\text{px}$	ERc5s (color) MRm (mono)	2560 x 1920 1388 x 1040
20x NA 0,5	PL NeoFluar	0,17 $\mu\text{m}/\text{px}$ 0,32 $\mu\text{m}/\text{px}$	ERc5s (color) MRm (mono)	2560 x 1920 1388 x 1040
40x NA 0,75	PL NeoFluar	0,087 $\mu\text{m}/\text{px}$ 0,16 $\mu\text{m}/\text{px}$	ERc5s (color) MRm (mono)	2560 x 1920 1388 x 1040
63x NA 1,4	PL Apochromat - Oil	0,055 $\mu\text{m}/\text{px}$ 0,10 $\mu\text{m}/\text{px}$	ERc5s (color) MRm (mono)	2560 x 1920 1388 x 1040