

Zeiss Axiolmager Microscope

Filter Blocks and Fluorescence Dyes

Filter Number	Example Dyes	Excitation Filter	Beam Splitter	Emission Filter
20 Rhodamine	Rhodamine dsRed CY3 Propidium Iodide Alexa 555	BP 546/12	FT 560	BP 575-640
38 GFP	Alexa 488 FITC CY2 YFP	BP 470/40	FT 495	BP 525/50
49 DAPI	DAPI Alexa 350 Hoechst	G 365	FT 395	BP 445/50
50 CY5	CY5 Alexa 633 Alexa 647	BP 640/30	FT 660	BP 690/50
45 Texas Red	Texas Red Alexa 568 Alexa 594	BP 562/40	FT 585	BP 630/75

Objectives

Magnification	Type	Phase	Scaling Factor ($\mu\text{m}/\text{px}$)	Camera	Pixels / Image (1x1 Binning)
1,25x NA 0,03	PL NeoFluar	--	2,48 $\mu\text{m}/\text{px}$ 5,77 $\mu\text{m}/\text{px}$	512 color 506 mono	4248 x 3832 2752 x 2208
5x NA 0,16	PL NeoFluar	--	0,62 $\mu\text{m}/\text{px}$ 1,44 $\mu\text{m}/\text{px}$	512 color 506 mono	4248 x 3832 2752 x 2208
10x (PH) NA 0,3	PL NeoFluar	1	0,31 $\mu\text{m}/\text{px}$ 0,72 $\mu\text{m}/\text{px}$	512 color 506 mono	4248 x 3832 2752 x 2208
20x NA 0,8	PL ApoChromat	--	0,16 $\mu\text{m}/\text{px}$ 0,36 $\mu\text{m}/\text{px}$	512 color 506 mono	4248 x 3832 2752 x 2208
40x (PH) NA 0,75	PL NeoFluar	2	0,078 $\mu\text{m}/\text{px}$ 0,18 $\mu\text{m}/\text{px}$	512 color 506 mono	4248 x 3832 2752 x 2208
63x NA 1,25	PL NeoFluar - Oil	--	0,049 $\mu\text{m}/\text{px}$ 0,11 $\mu\text{m}/\text{px}$	512 color 506 mono	4248 x 3832 2752 x 2208
100x (PH) NA 1,30	PL NeoFluar - Oil	3	0,031 $\mu\text{m}/\text{px}$ 0,072 $\mu\text{m}/\text{px}$	512 color 506 mono	4248 x 3832 2752 x 2208