

ETALUMA LUMASCOPIES 620, 600, and 720

Filter Set Compatibility With Fluorophores

- ★★★★★ Optimized; Filter set specifically optimized for that fluorophore
 ★★★ Good; Should result in nearly ideal performance in most situations
 ★ Acceptable; Actual performance is dependent on specific experimental conditions

Fluorophore	Peak Excitation Wavelength (nm)	Peak Emission Wavelength (nm)	Compatibility
1,8-ANS	372	477	★
4-methylumbelliferone	357	441	★
7-hydroxy-4-methylcoumarin	360	442	★★★
Alexa Fluor [®] 405	401	422	★
AMCA (Aminomethylcoumarin)	350	448	★★★
ATTO 390	392	477	★
BD Horizon V450	406	449	★★★
BFP (EBFP)	380	440	★★★★★
Calcofluor White	349	439	★
Cascade Blue [™]	401	419	★
CellTrace calcein violet	400	452	★★★
DAPI	359	461	★★★★★
DiFMU-pH 9.0	358	450	★
DY-415	418	470	★
DyLight 405	398	420	★★★
ER-Tracker [™] Blue-White DPX	372	557	★
HiLyte Fluor [™] 405	403	428	★★★
Hoechst 33258	352	455	★
LIVE-DEAD Fixable Violet Dead Cell Stain	403	455	★★★
LysoSensor Blue	374	424	★★★
LysoTracker Blue	373	422	★
Marina Blue	363	461	★★★
Pacific Blue [™]	404	455	★★★
sgBFP [™]	387	451	★★★
Sirius	355	424	★★★
SpectrumBlue	405	449	★★★
TagBFP	402	457	★★★
Vybrant DyeCycle Violet	369	437	★★★
5-carboxy-2,7-dichlorofluorescein	500	525	★★★
5-FAM (5-carboxyfluorescein)	492	518	★★★
6-carboxyrhodamine 6G	525	555	★
Acridine Orange	502	526	★★★
Alexa Fluor [®] 430	431	541	★
Alexa Fluor [®] 488	499	520	★★★
Alexa Fluor [®] 500	503	525	★★★
AmCyan1	458	489	★★★
ATTO 488	500	525	★★★
ATTO 495	495	527	★★★
BCECF (pH 5.5)	481	518	★★★
BCECF (pH 9.0)	502	528	★★★
BODIPY FL	505	512	★★★

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BODIPY FL-MeOH	502	511	★★★★
Calcein	494	514	★★★★
Calcium Green-1	507	529	★
CFP2	490	510	★★★★
Cy2™	492	507	★★★★
CyQUANT GR-DNA	502	523	★★★★
DAF-FM-NO	495	519	★★★★
Dendra2 (Green)	491	507	★★★★
DiA	457	586	★
DiO	475	500	★★★★
Dronpa	502	516	★★★★
DY-505-Phalloidin	503	530	★★★★
ecliptic pHluorin pH5.5	473	507	★★★★
Emerald	491	511	★★★★
evoglow-Bs1	449	496	★
FITC (Fluorescein)	495	519	★★★★★★
FIAsH-CCPFCC	511	530	★
Fluo-3	506	527	★
Fluo-4	494	516	★★★★
Fluorescein dextran	501	524	★★★★
Fluorescein-pH 8.0	489	517	★★★★
Fluoro-Emerald	494	518	★★★★
FluoSpheres Yellow-Green fluorescent microspheres	503	514	★★★★
FM 1-43	473	579	★
GFP (EGFP)	489	511	★★★★★★
Green 496	496	520	★★★★
Green 500	501	524	★★★★
HCS LipidTOX Green neutral lipid stain	498	507	★★★★
HCS LipidTOX Green phospholipidosis	504	536	★★★★
HiLyte Fluor™ 488	497	526	★★★★
LIVE-DEAD Fixable Green Dead Cell Stain	498	525	★★★★
LysoSensor Green	448	502	★★★★
LysoTracker Green	501	509	★★★★
LysoTracker Yellow HCK-123	488	565	★
Magnesium Green	507	531	★
mHoneyDew	478	562	★★★★
MitoTracker™ Green	490	512	★★★★
mWasabi	493	509	★★★★
NBD-X (MeOH)	467	538	★★★★
NeuroTrace 500/525 Green Fluorescent			
Nissl Stain	495	524	★★★★
Oregon Green™ 488	498	526	★★★★
Oregon Green™ 514	513	532	★
PicoGreen	502	522	★★★★
PKH67	488	500	★★★★
Qdot® 525 Nanocrystals	300	525	★

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Qdot [®] 545 Nanocrystals	300	543	★
ratiometric pHluorin pH5	500	509	★★★
Rhodamine 110	497	519	★★★
Rhodamine 123	507	529	★
Rhodamine Green	497	523	★★★
Rhodol Green	497	524	★★★
sgGFP [™] (super glow GFP)	472	506	★★★
Sodium Green	507	532	★★★
SpectrumGreen	497	538	★★★
SYBR Gold nucleic acid gel stain-DNA	496	539	★★★
SYBR Green I nucleic acid gel stain-DNA	498	522	★★★
SYBR Safe DNA gel stain-DNA	509	526	★
SYTO 11	506	525	★
SYTO 13	448	506	★★★
SYTO 16	489	520	★★★
SYTO 9	483	500	★★★
stain	503	527	★★★
SYTOX Green-DNA	504	524	★★★
TO-PRO-1	515	531	★
TOTO-1	514	531	★
TurboGFP	482	503	★★★
Vybrant DyeCycle Green	506	534	★★★
Vybrant DyeCycle Orange	519	563	★
wtGFP (wild type GFP, non-UV excitation)	474	509	★★★
YO-PRO-1	491	506	★★★
YOYO-1	491	508	★★★
5-ROX (carboxy-X-rhodamine)	578	604	★
7-AAD	548	648	★
Alexa Fluor [®] 568	579	603	★
Alexa Fluor [®] 594	590	618	★★★
APC	651	660	★
APC (Allophycocyanin)	651	660	★
AsRed 2	576	592	★
ATTO 590	594	624	★★★
ATTO 594	601	624	★★★
ATTO 610	614	634	★
ATTO 620	618	642	★
ATTO 635	635	658	★
ATTO 647	644	670	★
BOBO [™] -3	570	605	★
BODIPY 630/650-X	625	641	★
BODIPY TR-X phalloidin	590	621	★★★
Calcium Crimson	589	609	★★★
Carboxynaphthofluorescein	599	674	★★★
CellTrace BODIPY TR methyl ester	598	625	★★★
CellTracker Red CMTPX	586	614	★★★
ChlorophyllA	480	650	★★★

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DDAO	648	657	★★★
DyLight 594	593	618	★★★
DyLight 633	620	649	★
FluoSpheres Crimson fluorescent microspheres	620	646	★★★
FluoSpheres Red fluorescent microspheres	656	683	★★★
HcRed1	588	618	★★★
HCS CellMask Red cytoplasmic	622	644	★
HCS LipidTOX Deep Red neutral lipid stain	635	652	★
HCS LipidTOX Red neutral lipid stain	582	616	★★★
HCS LipidTOX Red phospholipidosis	584	608	★★★
HiLyte Fluor™ 594	592	616	★★★
Hypericin	600	603	★
KFP-Red	575	599	★
LDS 751	560	711	★
LIVE-DEAD Fixable Red Dead Cell Stain	595	613	★★★
mCherry	587	610	★★★★★
MitoTracker™ Deep Red	641	662	★
mKate2	588	633	★★★
mPlum	589	649	★★★
mRFP1	584	700	★★★
mStrawberry	574	596	★
Nile blue-EtOH	631	660	★
Nile red-phospholipid	553	637	★★★
Qdot® 625 Nanocrystals	300	621	★★★
Qdot® 655 Nanocrystals	300	654	★★★
ReAsH-CCPGCC	592	606	★★★
Red 580	580	603	★
SNARF (carboxy) 514 Excitation pH 9	576	638	★★★
SNARF-1 488nm (ph 9.0)	576	638	★★★
SNARF-1 514nm (ph 9.0)	576	638	★★★
SpectrumRed	587	615	★★★
SYTO 17	619	638	★
SYTO 59	622	644	★
SYTO 61	618	650	★★★
Texas Red dextran	592	613	★★★
Texas Red DHPE	584	608	★★★
Texas Red®	592	614	★★★
TOTO-3	642	661	★
TurboFP635(Katushka)	591	638	★★★
X-Rhod-1 Indicator	580	601	★
YO-PRO-3	613	629	★★★
YOYO-3	611	631	★★★