

Dead_Cell_Exclusion_Dyes

Dead Cell Exclusion Dye	Laser	Excitation (max nm)	Emission (max nm)	Company	Cat. No.	Stain Cells	Fixation Compatibility	Permeabilization Compatibility	Dye Type
CellTrace Calcein Blue, AM	355	322	425	ThermoFisher	C34853	Live	Nonfixable	Permeable	Esterase substrates
BD Horizon Fixable Viability Stain 440UV	355	338	436	BD	566332	Dead	Fixable	Impermeant	Amino
Live-or-Dye 350/448	355	347	448	Biotium	32002	Dead	Fixable	Impermeant	Amino
Fixable Viability Dye eFluor 450	355	350	455	ThermoFisher	65-0868-14	Dead	Fixable	Permeable	Amino
Hoechst 33342	355	350	461	ThermoFisher	H3570	Live/Dead	Fixable	Permeable	DNA
LIVE/DEAD Fixable Blue	355	350	450	ThermoFisher	L23105	Live/Dead	Fixable	Impermeant	Amino
Hoechst 33258	355	352	461	ThermoFisher	H3569	Live/Dead	Fixable	Permeable	DNA
VivaFix 353/442	355	353	442	Bio-Rad	1351111	Dead	Fixable	Impermeant	Amino
Ghost Dye UV 450	355	355	450	Tonbo	13-0868-T100	Dead	Fixable	Impermeant	Amino
DAPI	355 405	358	461	ThermoFisher	D1306	Dead	Nonfixable	Impermeant	DNA
Zombie UV	355 405	362	459	Biologend	423107	Dead	Fixable	Impermeant	Amino
LIVE/DEAD Fixable Aqua	355 405	367	526	ThermoFisher	L34957	Live/Dead	Fixable	Impermeant	Amino
Hoechst 34580	355 405	392	440	ThermoFisher	H21486	Live/Dead	Fixable	Permeable	DNA
Zombie Aqua	405	382	510	Biologend	423101	Dead	Fixable	Impermeant	Amino
Live-or-Dye 405/545	405	395	545	Biotium	32009	Dead	Fixable	Impermeant	Amino
BD Horizon Fixable Viability Stain 575V	405	396	572	BD	565694	Dead	Fixable	Impermeant	Amino
Zombie Yellow	405	396	572	Biologend	423103	Dead	Fixable	Impermeant	Amino
VivaFix 398/550	405	398	550	Bio-Rad	1351114	Dead	Fixable	Impermeant	Amino
CellTrace Calcein Violet, AM	405	400	452	ThermoFisher	C34858	Live	Nonfixable	Permeable	Esterase substrates
Zombie Violet	405	400	423	Biologend	423113	Dead	Fixable	Impermeant	Amino
ViaKrome 405 Fixable Viability Dye	405	401	420	Beckman	C36614	Live	Fixable	Permeable	Thiol reactive
Fixable Viability Dye eFluor 455UV	405	405	450	ThermoFisher	65-0863-14	Dead	Fixable	Permeable	Amino
LIVE/DEAD Fixable Lime	405	405	506	ThermoFisher	L34990	Live/Dead	Fixable	Impermeant	Amino
Fixable Viability Dye eFluor 506	405	405	506	ThermoFisher	65-0866-14	Dead	Fixable	Permeable	Amino
Ghost Dye Violet 450	405	405	450	Tonbo	13-0863-T100	Dead	Fixable	Impermeant	Amino
Ghost Dye Violet 510	405	405	510	Tonbo	13-0870-T100	Dead	Fixable	Impermeant	Amino
Ghost Dye Violet 540	405	405	537	Tonbo	13-0879-T100	Dead	Fixable	Impermeant	Amino
LIVE/DEAD Fixable Yellow	405	405	575	ThermoFisher	L34959	Live/Dead	Fixable	Impermeant	Amino
Viobility 405/452	405	405	452	Miltenyi	130-109-816	Dead	Fixable	Impermeant	Amino
Viobility 405/520	405	405	520	Miltenyi	130-109-814	Dead	Fixable	Impermeant	Amino
BD Horizon Fixable Viability Stain 450	405	406	450	BD	562247	Dead	Fixable	Impermeant	Amino
BD Horizon Fixable Viability Stain 510	405	408	512	BD	564406	Dead	Fixable	Impermeant	Amino
Live-or-Dye 405/452	405	408	452	Biotium	32003	Dead	Fixable	Impermeant	Amino
VivaFix 408/512	405	408	512	Bio-Rad	1351113	Dead	Fixable	Impermeant	Amino
VivaFix 410/450	405	410	450	Bio-Rad	1351112	Dead	Fixable	Impermeant	Amino
LIVE/DEAD Fixable Violet	405	416	451	ThermoFisher	L34955	Live/Dead	Fixable	Impermeant	Amino
PO-PRO-1	405	435	455	ThermoFisher	P3581	Dead	Nonfixable	Impermeant	DNA
SYTOX Blue	405	444	480	ThermoFisher	S34857	Dead	Nonfixable	Impermeant	DNA
LIVE/DEAD Fixable Olive	488	480	557	ThermoFisher	L34978	Live/Dead	Fixable	Impermeant	Amino
Fixable Viability Dye eFluor 520	488	488	522	ThermoFisher	65-0867-14	Dead	Fixable	Permeable	Amino
Viobility 488/520	488	488	520	Miltenyi	130-109-812	Dead	Fixable	Impermeant	Amino
Live-or-Dye 488/515	488	490	515	Biotium	32004	Dead	Fixable	Impermeant	Amino
YO-PRO-1	488	491	509	ThermoFisher	Y3603	Dead	Nonfixable	Impermeant	DNA
Zombie Green	488	491	515	Biologend	423111	Dead	Fixable	Impermeant	Amino
CellTrace Calcein Green, AM	488	495	515	ThermoFisher	C34852	Live	Nonfixable	Permeable	Esterase substrates
LIVE/DEAD Fixable Green	488	495	520	ThermoFisher	L23101	Live/Dead	Fixable	Impermeant	Amino

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BD Horizon Fixable Viability Stain 520	488	498	521	BD	564407	Dead	Fixable	Impermeant	Amino
VivaFix 498/521	488	498	521	Bio-Rad	1351115	Dead	Fixable	Impermeant	Amino
SYTOX Green	488	504	523	ThermoFisher	S34860	Dead	Nonfixable	Impermeant	DNA
TO-PRO-1	488	515	531	ThermoFisher	T3602	Dead	Nonfixable	Impermeant	DNA
LIVE/DEAD Fixable Orange	488	580	602	ThermoFisher	L34984	Live/Dead	Fixable	Impermeant	Amino
Live-or-Dye NucFix Red	488 532	520	610	Biotium	32010	Dead	Fixable	Impermeant	Amino
BD Horizon Fixable Viability Stain 620	488 532	523	617	BD	564996	Dead	Fixable	Impermeant	Amino
JO-PRO-1	488 532	530	546	ThermoFisher	J11373	Dead	Nonfixable	Impermeant	DNA
Propidium iodide	488 532	535	617	ThermoFisher	P21493	Dead	Nonfixable	Impermeant	DNA
7-AAD	488 532	546	647	ThermoFisher	A1310	Dead	Nonfixable	Impermeant	DNA
SYTOX AADvanced	488 561	546	647	ThermoFisher	S10274	Dead	Nonfixable	Impermeant	DNA
BD Horizon Fixable Viability Stain 570	488 561	547	573	BD	564995	Dead	Fixable	Impermeant	Amino
SYTOX Orange	488 561	547	570	ThermoFisher	S34861	Dead	Nonfixable	Impermeant	DNA
VivaFix 547/573	488 561	547	573	Bio-Rad	1351116	Dead	Fixable	Impermeant	Amino
ViaKrome 561 Fixable Viability Dye	561	555	565	Beckman	C36620	Dead	Fixable	Permeable	Thiol reactive
Live-or-Dye 568/583	561	562	583	Biotium	32005	Dead	Fixable	Impermeant	Amino
VivaFix 583/603	561	583	603	Bio-Rad	1351117	Dead	Fixable	Impermeant	Amino
Live-or-Dye 594/614	561	593	614	Biotium	32006	Dead	Fixable	Impermeant	Amino
LIVE/DEAD Fixable Red	561	595	615	ThermoFisher	L23102	Live/Dead	Fixable	Impermeant	Amino
Zombie Red	633/640	600	624	Biologend	423109	Dead	Fixable	Impermeant	Amino
YO-PRO-3	633/640	612	631	ThermoFisher	Y3607	Dead	Nonfixable	Impermeant	DNA
Draq7	633/640	633	695	Biostatus	DR70250	Dead	Nonfixable	Impermeant	DNA
Fixable Viability Dye eFluor 660	633/640	633	660	ThermoFisher	65-0864-14	Dead	Fixable	Permeable	Amino
Fixable Viability Dye eFluor 780	633/640	633	780	ThermoFisher	65-0865-14	Dead	Fixable	Permeable	Amino
Ghost Dye Red 710	633/640	633	710	Tonbo	13-0871-T100	Dead	Fixable	Impermeant	Amino
Ghost Dye Red 780	633/640	633	780	Tonbo	13-0865-T100	Dead	Fixable	Impermeant	Amino
LIVE/DEAD Fixable Near-IR (780)	633/640	633	785	ThermoFisher	L34993	Live/Dead	Fixable	Impermeant	Amino
Helix NP NIR	633/640	640	660	Biologend	425301	Dead	Fixable	Impermeant	DNA
SYTOX Red	633/640	640	658	ThermoFisher	S34859	Dead	Nonfixable	Impermeant	DNA
Live-or-Dye 640/662	633/640	642	662	Biotium	32007	Dead	Fixable	Impermeant	Amino
TO-PRO-3	633/640	642	661	ThermoFisher	T3605	Dead	Nonfixable	Impermeant	DNA
BD Horizon Fixable Viability Stain 660	633/640	649	660	BD	564405	Dead	Fixable	Impermeant	Amino
VivaFix 649/660	633/640	649	660	Bio-Rad	1351118	Dead	Fixable	Impermeant	Amino
LIVE/DEAD Fixable Far Red	633/640	650	665	ThermoFisher	L10120	Live/Dead	Fixable	Impermeant	Amino
BD Horizon Fixable Viability Stain 700	633/640	657	700	BD	564997	Dead	Fixable	Impermeant	Amino
RedDot 1	633/640	662	694	Biotium	40060	Live	Nonfixable	Permeable	DNA
RedDot 2	633/640	665	695	Biotium	40061	Dead	Fixable	Impermeant	DNA
LIVE/DEAD Fixable Scarlet	633/640	702	723	ThermoFisher	L34987	Live/Dead	Fixable	Impermeant	Amino
Zombie NIR	633/640	719	746	Biologend	423105	Dead	Fixable	Impermeant	Amino
LIVE/DEAD Fixable Near-IR	633/640	750	775	ThermoFisher	L10119	Live/Dead	Fixable	Impermeant	Amino
Live-or-Dye 755/777	633/640	755	777	Biotium	32008	Dead	Fixable	Impermeant	Amino
BD Horizon Fixable Viability Stain 780	633/640	759	780	BD	565388	Dead	Fixable	Impermeant	Amino
ViaKrome 638 Fixable Viability Dye	638	638	655	Beckman	C36624	Dead	Fixable	Permeable	Thiol reactive
LIVE/DEAD Fixable Near IR (876)	808	840	876	ThermoFisher	L34981	Live/Dead	Fixable	Impermeant	Amino
ViaKrome 808 Fixable Viability Dye	808	854	878	Beckman	C36628	Dead	Fixable	Permeable	Thiol reactive