

Filter pairs for the Varioskan ALF Multimode Microplate Reader

Factory-installed (permanently installed) filter pairs for Thermo Scientific™ Varioskan™ ALF Multimode Microplate Reader—technical specifications

Description	Wavelength (nm)/ FWHM* (nm)		Application/kit examples
	Excitation	Emission	
Coumarin family filter pair	345/25	450/40	DAPI- and Hoechst™ dye-based DNA assays Invitrogen™ EnzChek™ Caspase-3 Activity Assay Kit (blue) Aminoquinoline-based assays
Fluorescein family filter pair	485/15	525/15	Invitrogen™ Quant-iT™ DNA/RNA (green) quantitation assays Invitrogen™ Quant-iT™ Endotoxin Detection Assay Kit Invitrogen™ CellEvent™ Caspase-3/7 Detection Reagents (green) Invitrogen™ EnzChek™ Caspase-3 Activity Assay Kit (green) Invitrogen™ CellROX™ Green Reagent Invitrogen™ DAF-FM Diacetate assays Green Fluorescent Protein assays
Resorufin family filter pair	555/15	615/45	Invitrogen™ PrestoBlue™ Cell Viability Reagent Invitrogen™ alamarBlue™ Cell Viability Reagent Invitrogen™ Amplex™ Red enzyme activity assays Invitrogen™ Click-iT™ EdU Proliferation Assay

Accessory filter pairs

Description	Wavelength (nm)/ FWHM* (nm)		Application/kit examples	Cat. No.
	Excitation	Emission		
Filter set for Invitrogen™ Alexa Fluor™ 555 and equivalent dyes	535/44	595/37	Invitrogen™ MitoTracker™ Orange dye	VAPAI001
Filter set for Invitrogen™ Alexa Fluor™ 647 and equivalent dyes	625/25	677/14	Invitrogen™ Quant-iT™ RNA Assay Kits (red) Invitrogen™ CyQUANT™ Direct Red Cell Proliferation Assay Invitrogen™ MitoTracker™ Deep Red dye	VAPAI002
Filter set for Invitrogen™ Alexa Fluor™ 514 and equivalent dyes	497/21	542/25	Alexa Fluor 514 dye-based assays	VAPAI007
Filter set for amino-trifluoromethyl coumarin (AFC) and equivalent dyes	390/23	513/18	AFC-based proteolytic enzyme assays	VAPAI008

Accessory filter pairs (continued)

Description	Wavelength (nm)/FWHM* (nm)		Application/kit examples	Cat. No.
	Excitation	Emission		
Filter set for diethylamino-methyl-coumarin and equivalent dyes	390/23	450/40	Blue Fluorescent Protein assays	VAPAI009
Filter set for Invitrogen™ Alexa Fluor™ 430 and equivalent dyes	452/51	545/60	Alexa Fluor 430 dye-based assays	VAPAI011
Filter set for methyl-umbelliferone at acidic pH and equivalent dyes	334/47	450/40	Methyl-umbelliferone-based pH indicator assays	VAPAI015
Filter set for Invitrogen™ Alexa Fluor™ 680 and equivalent dyes	649/20	711/31	Alexa Fluor 680 dye-based assays	VAPAI003
Filter set for Invitrogen™ Alexa Fluor™ 568 and equivalent dyes	555/15	605/22	Invitrogen™ CyQUANT™ LDH Cytotoxicity Assay Invitrogen™ CellEvent™ Caspase-3/7 Detection Reagents (red)	VAPAI005
Filter set for Cyan Fluorescent Protein (CFP) and equivalent dyes	438/30	497/21	CFP assays Thioflavin T assays	VAPAI010
Filter set for 3-(4-hydroxyphenyl) propionic acid (HPPA) assay and equivalent dyes	334/47	425/30	HPPA-based fluorometric ELISA assays	VAPAI012
Filter set for phloxine B, propidium iodide, and equivalent dyes	527/25	615/45	Propidium-based DNA assays Ethidium derivative-based DNA assays	VAPAI013
Filter set for Invitrogen™ NanoOrange™ Protein Quantitation Kit assays and equivalent dyes	485/15	575/20	NanoOrange Protein Quantitation Kit Invitrogen™ Qubit™ Protein Assay	VAPAI014

BRET and FRET filter sets

Description	Wavelength (nm)/FWHM* (nm)			Cat. No.
	Excitation	Emission	Acceptor emission	
Filter set for CFP-YFP FRET assay	438/30	497/21	542/25	VASET001
Filter set for FITC-TRITC FRET assay	485/15 (factory filter)	525/15 (factory filter)	595/37	VASET002
Filter set for Cy®3-Cy®5 FRET assay	535/44	595/37	677/14	VASET003
Filter set for Thermo Scientific™ GeneBLAzer™ assays	390/23	450/40 (factory filter)	525/15 (factory filter)	VASET004
Filter set for Promega™ NanoBRET™ assays	N/A	460/86	618/56	VAPAI006

* FWHM: Full width at half maximum.

Learn more at [thermofisher.com/varioskanalf](https://www.thermofisher.com/varioskanalf)

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