



Optical Specification Guide

AquaFluor Handheld Fluorometer/Turbidimeter

P/N	Application	MDL	Linear Range	LED (CWL)	Excitation	Emission	Sol. Std.	10x10 mm Cuvettes	12 mm Vials
8000-402	Ammonium	0.1 µM	0 - 10 µM	375 nm	350/80 nm	≥ 420 nm	N/A	7000-959	10-029A
			>10 - 100 µM					N/A *see note below	N/A *see note below
8000-401	CDOM/FDOM	0.1 ppb	0 - 1000 ppb	375 nm	350/80 nm	≥ 420 nm	N/A	7000-959	10-029A
8000-407	Chl a Extracted - Acidification	0.5 µg/L	0 - 300 µg/L	430 nm	395/130 nm	≥ 660 nm	8000-952	N/A	10-029A
8000-406	Chl <i>in vivo</i>	0.3 µg/L	0 - 300 µg/L	460 nm	395/130 nm	≥ 660 nm	8000-952	7000-959 7000-957	10-029A
8000-405	Fluorescein Dye	0.4 ppb	0 - 400 ppb	460 nm	≤ 485 nm	515/10 nm	8000-951	7000-959 7000-957	10-029A
8000-403	Optical Brighteners for Wastewater Monitoring	0.5 ppm	0 - 30,000 ppm	375 nm	350/80 nm	440/15 nm	N/A	7000-959	10-029A
8000-412	Phycocyanin (Freshwater Cyanobacteria)	1ppb	0-3,500 ppb	590 nm	≤ 595 nm	630-715 nm	8000-952	7000-959 7000-957	10-029A
		10ppb	0-20,000 ppb					**see note below	**see note below
8000-411	Phycocerythrin (Marine Cyanobacteria)	150 cells/ml	0 - 150,000 cells/ml	525 nm	512-544 nm	555-590 nm	8000-952	7000-959 7000-957	10-029A
8000-409	Rhodamine Dye	0.4 ppb	0 - 400 ppb	530 nm	530/50 nm	≥ 570 nm	8000-952	7000-959 7000-957	10-029A
8000-408	Turbidity	0.5 NTU	0 - 1000 NTU	530 nm	515/10 nm	515/10 nm	N/A	7000-957	10-029A

7000-959 = Methacrylate 10x10 mm cuvettes

7000-957 = Polystyrene 10x10 mm cuvettes

10-029A = Glass 12x75 mm test tubes

***Readings on the ammonium channel using plastic cuvettes have a maximum range of approximately 10 µM.**

Minicells are required to achieve readings of 10 µM - 100 µM.

Minicell Adaptor P/N 8000-936 and Minicells (500 ct.) P/N 138-0140 are included with Ammonium Channel.

****Readings on the phycocyanin channel using cuvettes or vials have a maximum range of approximately 3,500 ppb.**

Minicells (P/N 7000-950) and Minicell adaptor (P/N 8000-936) are required to achieve maximum range of approximately 20,000 ppb.