



## Optical Specification Guide

### Trilog Laboratory Fluorometer

P/N	Application	MDL	Linear Range	LED (CWL)	Excitation	Emission	Sol. Std.	10x10 mm Cuvettes	12 mm Vials
7200-067-W	Ammonium	0.05 µM	0-50 µM	365 nm	350/80 nm	410-450 nm	N/A	7000-956 7000-955 7000-959	10-029A
7200-069-W	CDOM/FDOM	0.1 ppb *	0-1000 ppb *	365 nm	350/80 nm	410-450 nm	N/A	7000-956 7000-955 7000-959	10-029A
7200-040-W	Chlorophyll a Extracted - Acidification	0.025 µg/L	0-300 µg/L	430 nm	≤ 500 nm	≥ 665 nm	8000-952	7000-956 7000-955	10-029A
7200-046-W	Chlorophyll a Extracted - Non-Acidification	0.025 µg/L	0-300 µg/L	460 nm	436/10 nm	685/10 nm	8000-952	7000-956 7000-955	10-029A
7200-043	Chlorophyll <i>in vivo</i>	0.025 µg/L	0-300 µg/L	460 nm	441/82 nm	660-710 nm	8000-952	7000-959	10-029A
7200-048	Fluorescein Dye Standard Range	0.01 ppb	0-200 ppb	460 nm	442/85 nm	515-570 nm	8000-951	7000-959	10-029A
	Fluorescein Dye Extended Range (Minicells Required)	0.75 ppb***	0-8000 ppb***	460 nm	442/85 nm	515-570 nm	8000-951	***N/A see note below	***N/A see note below
7200-049	Histamine	0.001 ppm 0.5 ppb**	0-100 ppm 0-2000 ppb**	365 nm	350/80 nm	410-490 nm	N/A	7000-959	10-029A
7200-074	Nitrate (Absorbance)	0.04 mg/L	0-14 mg/L	600 nm	540/10 nm	N/A	N/A	7000-956 7000-955 7000-959	10-029A
7200-047-W	Optical Brighteners for Wastewater Monitoring	1 ppb *	0-10,000 ppb *	365 nm	350/80 nm	445/15 nm	N/A	7000-956 7000-955 7000-959	10-029A
7200-070	Phosphate (Absorbance)	1 µg/L	0-930 µg/L	850 nm	880/10 nm	N/A	N/A	7000-956 7000-955 7000-959	10-029A
7200-044-W	Phycocyanin Extracted or <i>in vivo</i>	2 ppb PC	0-10,000ppb PC	590 nm	400-600 nm	640/30 nm	8000-952	7000-956 7000-955	10-029A

7200-042-W	Phycoerythrin Extracted or <i>in vivo</i>	0.3 ppb PE	0-20,000 ppb PE	530 nm	400-550 nm	610/60 nm	8000-952	7000-956 7000-955	10-029A
7200-042-W	Rhodamine Dye	0.01 ppb	0-500 ppb	530 nm	400-550 nm	610/60 nm	8000-952	7000-956 7000-955 7000-959	10-029A
7200-072	Silicate (Absorbance)	3 µg/L	0-3000 µg/L	850 nm	810/10 nm	N/A	N/A	7000-956 7000-955 7000-959	10-029A
7200-060	Turbidity	0.05 NTU	0-1000 NTU	IR LED	850/50 nm	850/50 nm	N/A	7000-957	10-029A

**7000-955 = Glass 10x10 mm cuvettes**

**7000-956 = Quartz 10x10 mm cuvettes**

**7000-957 = Polystyrene 10x10 mm cuvettes**

**7000-959 = Methacrylate 10x10 mm cuvettes**

**10-029A = Glass 12x75 mm test tubes**

**\*Quinine Sulfate**

**\*\*Pyrene tetra sulfonic acid (PTSA)**

**\*\*\*Minicell Adapter P/N 8000-936 and Minicell P/N 7000-950 required.**

**PC Phycocyanin pigment from Prozyme diluted in Deionized water**

**PE Phycoerythrin pigment from Prozyme diluted in Deionized water**