



## 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 $\mu$ M   | 0 - 10 $\mu$ M       | 375 nm    | 350/80 nm     | $\geq$ 420 nm | N/A       | 7000-959             | 10-029A             |
|          |   |               | >10 - 100 $\mu$ M    |           |               |               |           | 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     | $\geq$ 420 nm | N/A       | 7000-959             | 10-029A             |
| 8000-407 | Chl a Extracted - Acidification               | 0.5 $\mu$ g/L | 0 - 300 $\mu$ g/L    | 430 nm    | 395/130 nm    | $\geq$ 660 nm | 8000-952  | N/A                  | 10-029A             |
| 8000-406 | Chl <i>in vivo</i>                            | 0.3 $\mu$ g/L | 0 - 300 $\mu$ g/L    | 460 nm    | 395/130 nm    | $\geq$ 660 nm | 8000-952  | 7000-959<br>7000-957 | 10-029A             |
| 8000-405 | Fluorescein Dye                               | 0.4 ppb       | 0 - 400 ppb          | 460 nm    | $\leq$ 485 nm | 515/10 nm     | 8000-951  | 7000-959<br>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)        | 150 cells/ml  | 0 - 150,000 cells/ml | 590 nm    | $\leq$ 595 nm | 630-715 nm    | 8000-952  | 7000-959<br>7000-957 | 10-029A             |
| 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<br>7000-957 | 10-029A             |
| 8000-409 | Rhodamine Dye                                 | 0.4 ppb       | 0 - 400 ppb          | 530 nm    | 530/50 nm     | $\geq$ 570 nm | 8000-952  | 7000-959<br>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  $\mu$ M.**

**Minicells are required to achieve readings of 10  $\mu$ M - 100  $\mu$ M.**

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