



Reliable Instruments for an Unreliable World

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Specification Certificate

Product: CYCLOPS-7 Submersible Fluorometer, PN 2100-000/2108-000

Application: Cyanobacteria: Phycocyanin or Phycoerythrin

Note: Phycocyanin versions are stamped with the Letter "P" on the connector.

Phycoerythrin versions are stamped with the Letter "E" on the connector.

This certificate confirms that the CYCLOPS-7 with **Serial Number:** 2102974
has passed all manufacturing performance testing and meets the specifications detailed below.

For operating instructions, please refer to the CYCLOPS-7 User's Manual that is included with the unit or can be viewed at the following web link:

<http://www.turnerdesigns.com/t2/doc/manuals/main.html>

Measurement Parameter	X 1 Gain	X 10 Gain	X 100 Gain
Blank Solution – Deionized water, millivolt output	0 to 35 mV	0 to 75 mV	0 to 300 mV
Standard deviation in Deionized water	2 mV	4 mV	10 mV
Maximum Concentration value	2 Million cells/mL	200,000 cells/mL	20,000 cells/mL
Minimum Concentration Detection **	1,400 cells/mL	500 cells/mL	150 cells/mL
Gain Factor Spec.	X 1	X 10, +/- 5%	X100, +/- 5%

** Note: This specification is an average detection limit determined from tests performed with monocultures of different cyanobacteria species. There will be some variation in the fluorescence to concentration relationship depending on the make-up of the natural cyanobacteria assemblage.