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ECO Phycocyanin Fluorometer Characterization Sheet

Date: 7/2/2019 S/N: BBFL2SSC-5745

Phycocyanin (Basic Blue 3 equivalent) concentration expressed in ppb can be derived using the equation:

Phycocyanin (ppb) = Scale Factor * (Output - Dark Counts)

Digital

Dark Counts46 countsScale Factor (SF)0.0555 ppb/countMaximum Output4130 countsResolution1.1 counts

Ambient temperature during characterization 22.0 °C

Dark Counts: Signal output of the meter in clean water with black tape over detector.

SF: Determined using the following equation: $SF = x \div (output - dark counts)$, where x is the concentration of the solution used during instrument characterization. SF is used to derive instrument output concentration from the raw signal output of the fluo

Maximum Output: Maximum signal output the fluorometer is capable of.

Resolution: Standard deviation of 1 minute of collected data.

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