Certificate of Analysis

Fluorometric Chlorophyll Standards

29 July 2019

Parent Stock Solution A:

Spectrophotometric Data: 17 July 2019

Abs₆₆₄ = 0.94344 Abs₇₅₀ = 4.6631E-02

Chlorophyll concentration determination (Jeffrey Method, 1997)

High Concentration, Chlorophyll Solution B:

Chlorophyll a = 262 µg/L

Low Concentration, Chlorophyll Solution C:

Chlorophyll a = 28.2 µg/L

Raw Fluorescence Signal = 140.7 FS

Raw Fluorescence Signal = 1306 FS

Chlorophyll powder isolated from *Anacystis nidulans* is dissolved in 90% acetone and spectrophotometrically analyzed using Jeffrey Method (1997) to determine concentration of parent stock solution. Parent stock solution is diluted to create two chlorophyll standard solutions, B and C. Fluorescence signal of the resulting solutions is checked to confirm accuracy of dilution and twenty milliliters of each chlorophyll solution, B and C, is sealed in its own ampoule and stored in the dark at temperatures below -20° Celsius. Concentrations stated for chlorophyll solutions B and C are guaranteed up to a year from the date of this certificate if ampoules are stored unbroken, in the dark, at temperatures below -20° Celsius. Chlorophyll degradation depends on handling of the standards after ampoules are opened. Subdued light is recommended when standardizing fluorometers using these standards. Standards should be warmed to room temperature before use.

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Date

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