

Certificate of Analysis (Salinas)

Fluorometric Chlorophyll Standards

28 October 2019

Lot CAS163-01

Original Chlorophyll Solution A:

Mixed: 22 October 2019

Spectrophotometric Data: 22 October 2019

Abs₆₆₄ = 0.87509 Abs₇₅₀ = 2.2888 E-04

Chlorophyll concentration determination (Jeffrey Method, 1997)

Chlorophyll-a = 9.98 mg/L

High Concentration, Chlorophyll Solution B (volumetric dilution calculation):

Chlorophyll a = 204 µg/L

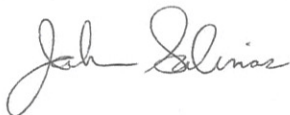
Raw Fluorescence Signal = 1195 RFS

Low Concentration, Chlorophyll Solution C (volumetric dilution calculation):

Chlorophyll a = 19.9 µg/L

Raw Fluorescence Signal = 117.0 RFS

Chlorophyll powder isolated from *Anacystis nidulans* is dissolved in 90% aqueous 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.



October, 2019

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Date



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