

Resource Summary Report

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Dissolved silica colorimetric assay using a plate reader (96-well plate)

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Type: Protocol

Proper Citation

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Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.bd7ni9me>

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Summary: This protocol describes the adaption of a silica colorimetric assay originally described in Strickland and Parsons, 1972 (p65-70), modified for use on a multi-mode plate reader spectrophotometer (BioTek, Synergy 2, Winooski, VT, USA), using standard 96-well plates for rapid measurements of 1 mL, diluted water samples. This assay measures the concentration of molybdate-reactive silica (monomeric and short polymers of silicic acid) in solution. Samples for this assay should be filtered (0.2 µm syringe filter) and placed in 2 mL microcentrifuge tubes. Avoid sample freezing. Store samples in the dark whenever possible.

Affiliations: Massachusetts Institute of Technology

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