

Abstract

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Facile Quantification of Aldehyde Starch in a Photometric Assay based on 2-Aminobenzamide Oxime

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The oxidation of starch to aldehyde starch opens up a wide range of further functionalization, e.g., *via* cross-linking. In investigating this oxidation, we found that classical analytical methods rely on time-consuming and work-intensive titration protocols. To accelerate the screening process we implemented a photometric assay based on the selective adduct-formation of 2-aminobenzamide oxime (ABAO) and aldehydes. The UV-active adduct can easily be quantified in a platereader, allowing for parallel processing of multiple samples with a readout in a fraction of the time and in consistency of conventional methods.

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