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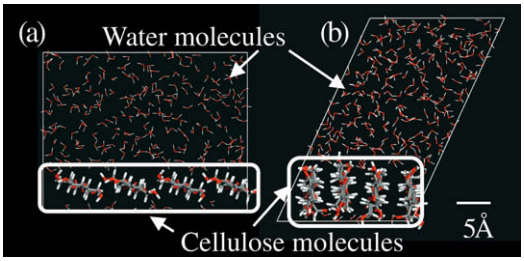
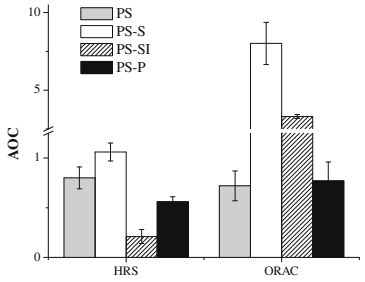
Contents

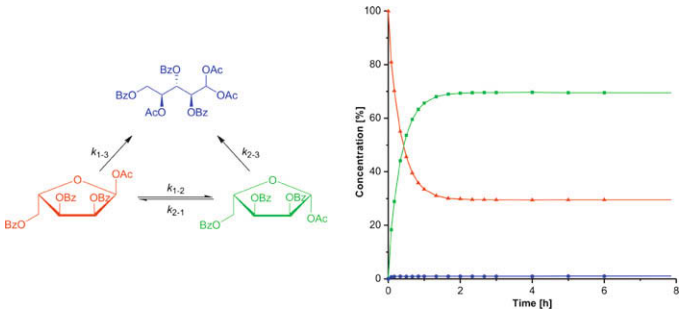
Full Papers



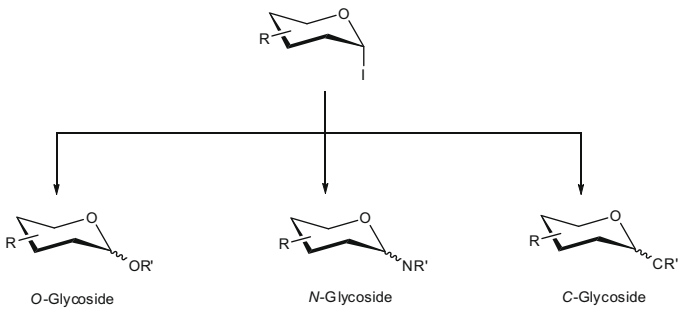
Changes in hydrogen-bonded mini-sheets in water media: (a), before calculation; (b), after 1 ns calculation.



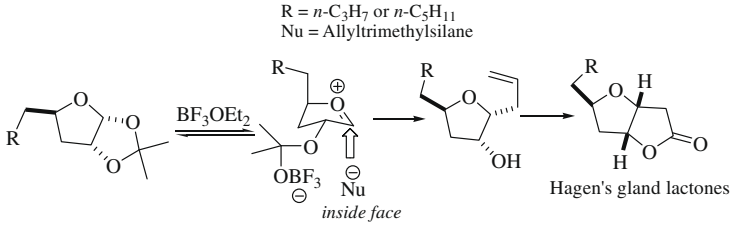
AOC: Antioxidant capacity
HRS: Hydroxyl radical scavenging activity
ORAC: Oxygen radical absorbance capacity assay



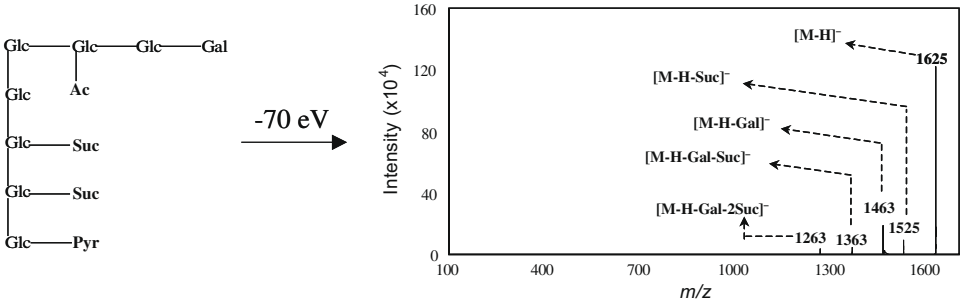
Mini Review

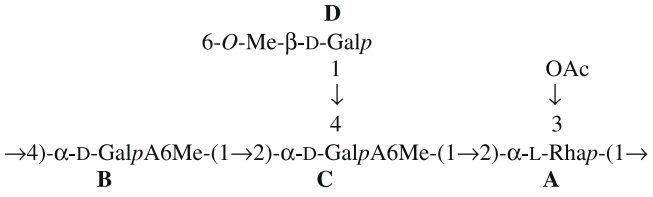


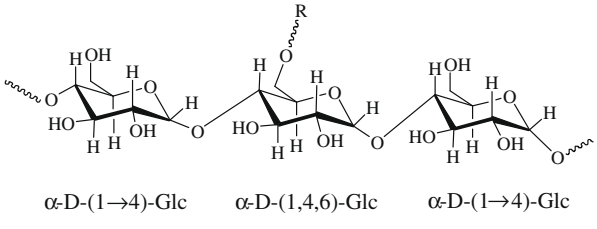
Notes

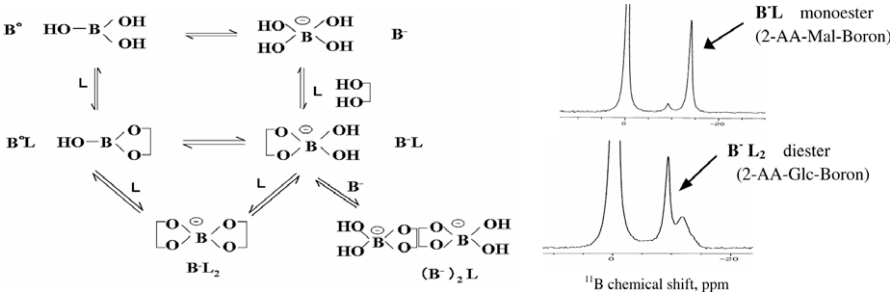


A short and practical synthesis of Hagen's gland lactones is reported.









*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

Shown is a fluorescence image of cell-surface glycans in a 3-day old zebrafish larva. Different colors represent glycans biosynthesized at different times in development. The glycans were imaged in live zebrafish using a two-step approach termed the bioorthogonal chemical reporter strategy. Embryos were first metabolically labeled with the unnatural monosaccharide *N*-azidoacetylgalactosamine, which targets the core position of mucin-type O-glycans; subsequently, the azide-containing glycans were reacted with a cyclooctyne–fluorophore conjugate by copper-free click chemistry, a step that was repeated multiple times to target temporally distinct glycan pools with different fluorophores. This work is the result of a collaboration between the Departments of Chemistry and Molecular and Cell Biology at the University of California, Berkeley [Laughlin, S. T.; Baskin, J. M.; Amacher, S. L.; Bertozzi, C. R. *Science* **2008**, *320*, 664].

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