

**Chemical Functionalization of Oligodeoxynucleotides with Multiple Boronic Acids
for the Polyvalent Binding of Saccharides**

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SUPPLEMENTARY INFORMATION

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Figure S1. Paper chromatography in buffer indicated at pH 7.4: a) PBS (150 mM NaCl, 10 mM Na₂HPO₄); b) 2x PBS (300 mM NaCl, 20 mM Na₂HPO₄); c) 0.5x PBS (75 mM NaCl, 5 mM Na₂HPO₄); d) PBS + MgCl₂ (5 mM); e) PBS-NaCl (10 mM Na₂HPO₄). Lanes (0.25 pmol): 1 - **BBA-DNA₁:BBA-DNA₁c**; 2 - **DNA₁:BBA-DNA₁c**; 3 - **DNA₁:DNA₁c**; 4 - CELAPT14.11

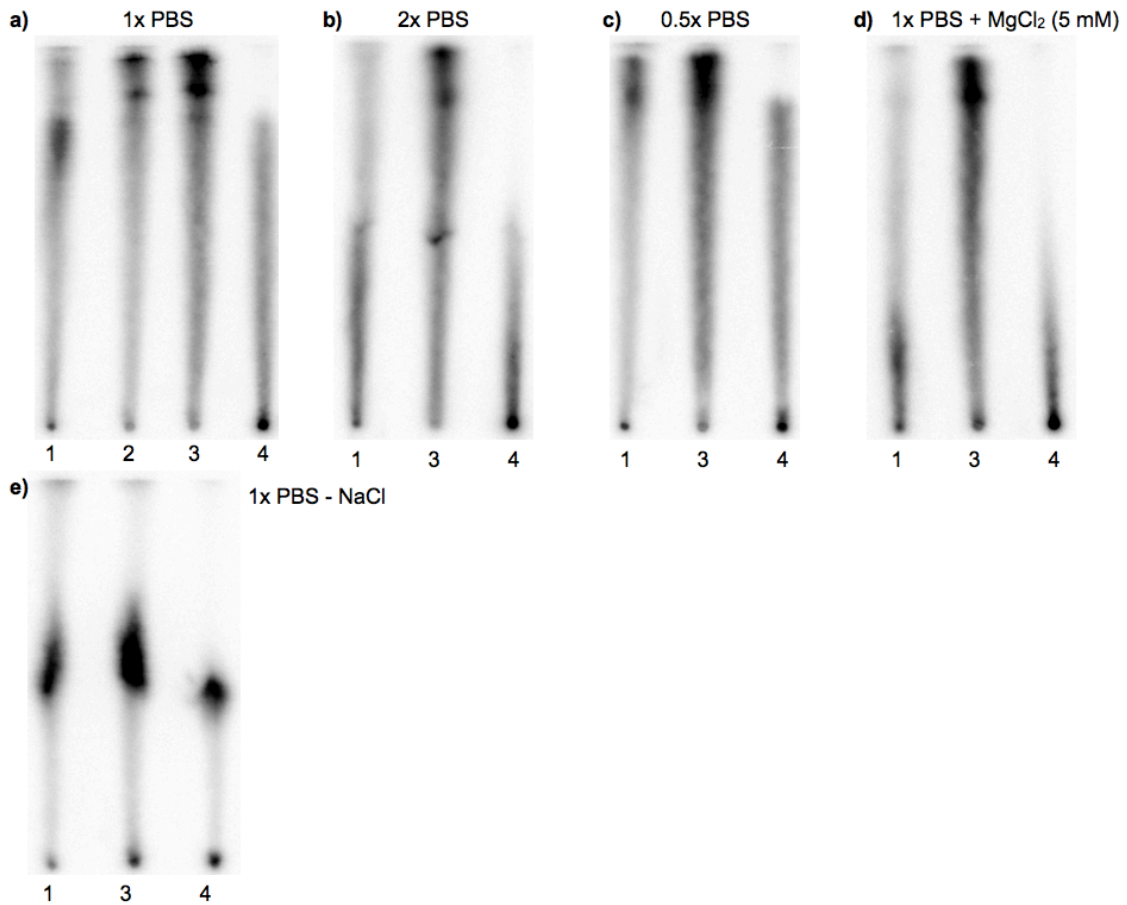


Figure S2. Paper chromatography in 20 mM Tris buffer (5 mM MgCl₂, 100 mM NaCl) at indicated pH 7.4. Lanes (0.25 pmol): 1 - **BBA-DNA₁:BBA-DNA₁c**; 2 - **DNA₁:BBA-DNA₁c**; 3 - **DNA₁:DNA₁c**; 4 - CELAPT14.11.

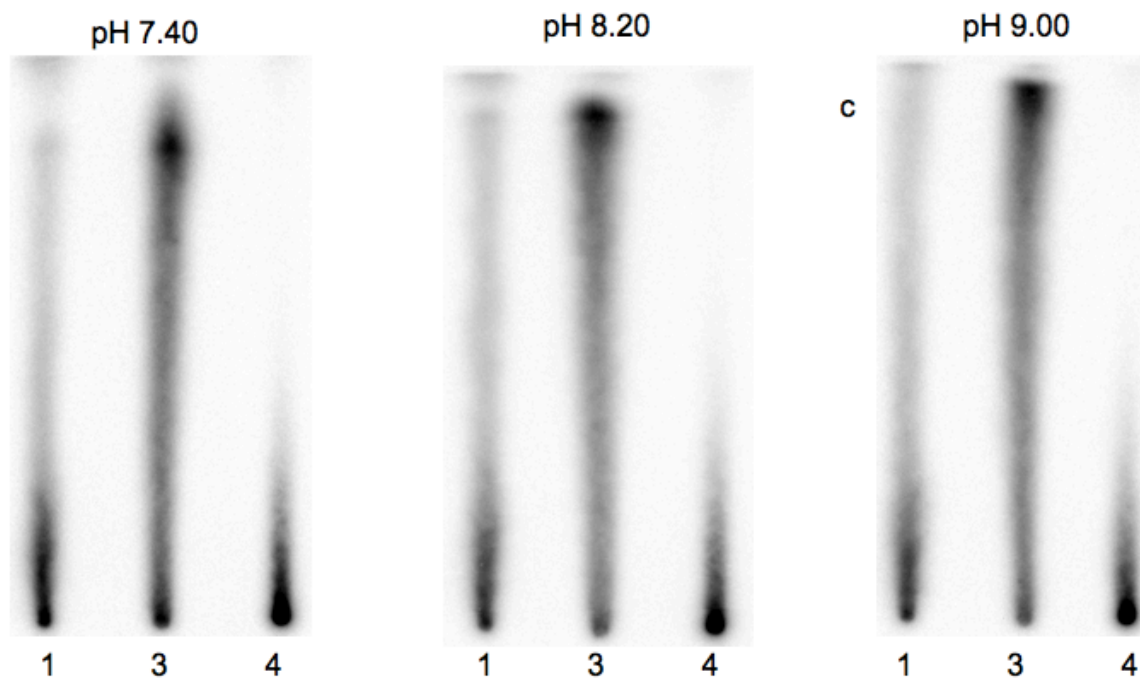
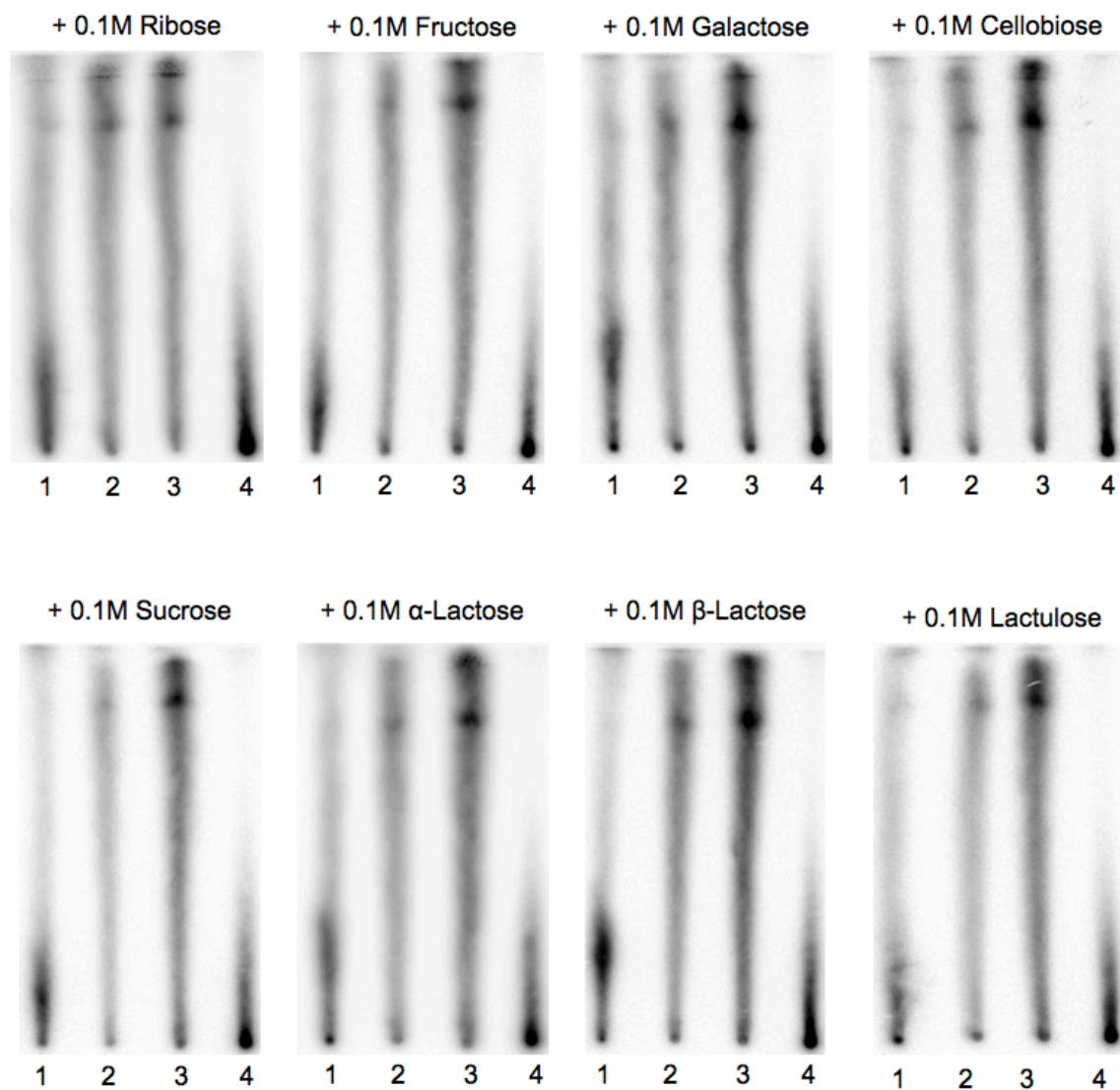


Figure S3. Paper chromatography in PBS buffer with 5 mM MgCl₂ and 0.1 M of the indicated saccharide. Lanes (0.25 pmol): 1 - **BBA-DNA₁:BBA-DNA_{1c}**; 2 - **DNA₁:BBA-DNA_{1c}**; 3 - **DNA₁:DNA_{1c}**; 4 - **CELAPT14.11**.



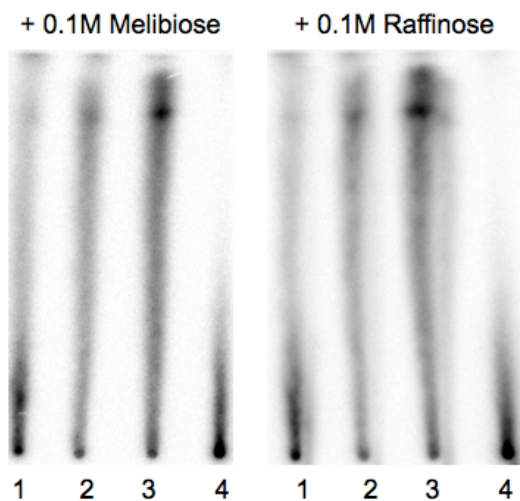


Figure S4. Example of Gaussian curve fitting of paper chromatography results using the Origin software and the data for maltose.

