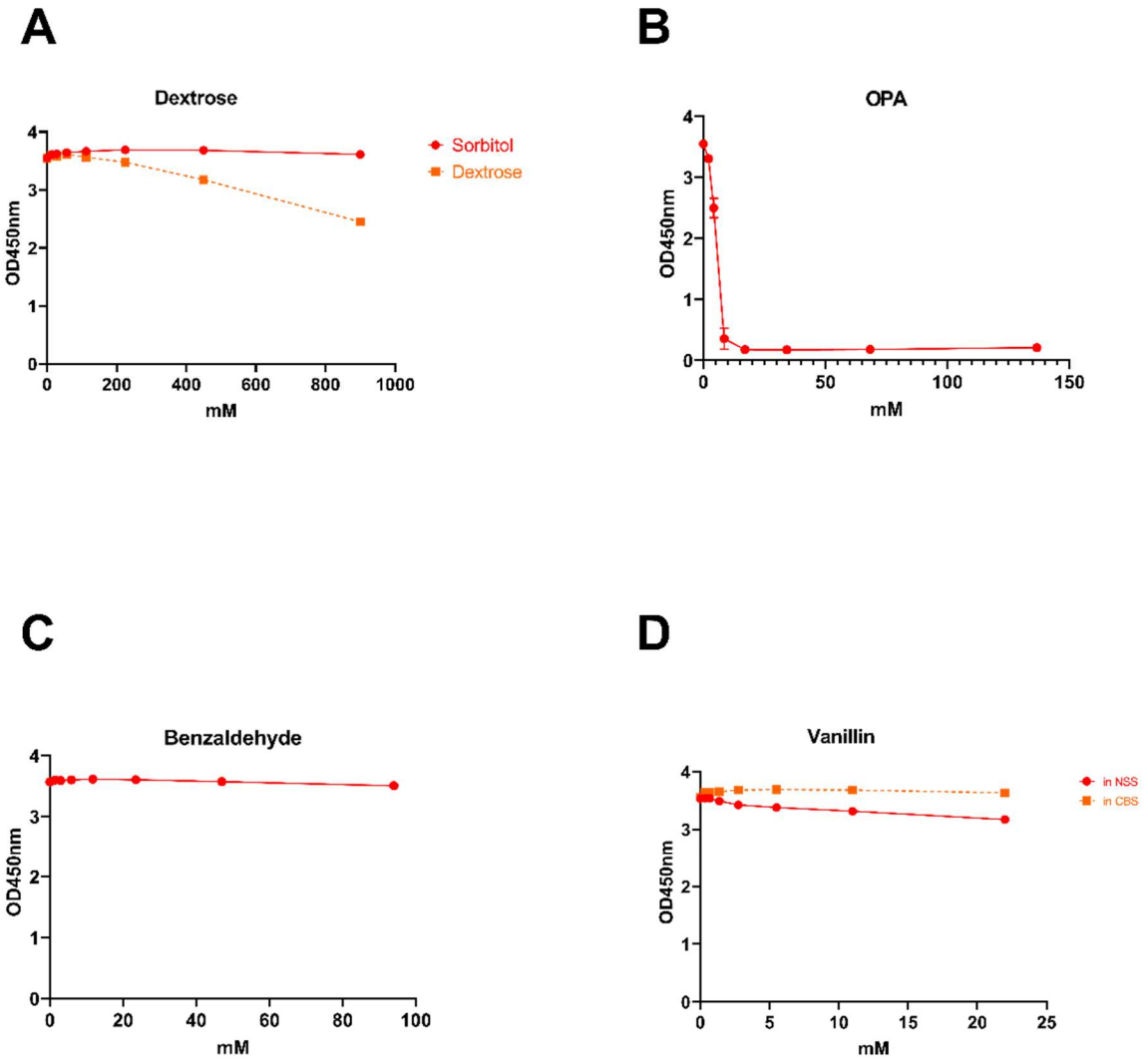

Supplementary Figure 1. A panel of candidate aldehydes were screened as TNBS substitutes; Said candidate aldehydes were screened for electrophilicity using a nucleophile consumption assay; Said assay comprises the steps of: contacting said candidate aldehyde with a nucleophile (*i.e.*, glycine), then back-titrating remaining excess unreacted nucleophile with TNBS, with the resulting trinitrophenylated glycine measured at OD450nm; data represent mean ± SD (n = 3); OD450nm: optical density at 450nm; OPA: *ortho*-phthalaldehyde; NSS: 0.9% saline solution (pH 7); CBS: carbonate-buffered saline solution (pH 8.5); MBS: sodium metabisulfite.