Figure S1: ^{1}H NMR spectra of TvLG (A) One-dimensional ^{1}H NMR spectrum of the dephosphorylated TvLG fraction after exchange into $^{2}H_20$. The β-GlcNAc anomeric resonances are overlapped with the water peak. Data obtained using a Bruker Avance II 500MHz spectrometer at 300K. (B) Anomeric region of the two-dimensional ^{1}H COSY spectrum of TvLG of the β-N-acetylhexosaminidase and β-galactosidase digested dephosphorylated TvLG fraction, with assigned anomeric cross-peaks labeled. Data was acquired at 303 K on a Bruker Avance spectrometer operating at 800 MHz for ^{1}H.

Figure S2: The effect of α-galactosidase digestion on TvLG. Mock treated TvLG (Lane 2), TvLG digested with β-galactosidase and β-N-acetylhexosaminidase (Lane 3), TvLG digested first with β-galactosidase and β-N-acetylhexosaminidase followed by α-galactosidase digestion (Lane 4), TvLG digested with β-galactosidase and β-N-acetylhexosaminidase then α-galactosidase and again with β-galactosidase and β-N-acetylhexosaminidase (Lane 5), TvLG digested by α-galactosidase (Lane 6), TvLG digested by α-galactosidase followed by β-galactosidase and β-N-acetylhexosaminidase (Lane 7), and molecular weight marker (Lane 8) were resolved by SDS-PAGE and stained with Periodate-Schiffs reagent. Numbers on the left side of the gel indicate molecular weight in kilodaltons.