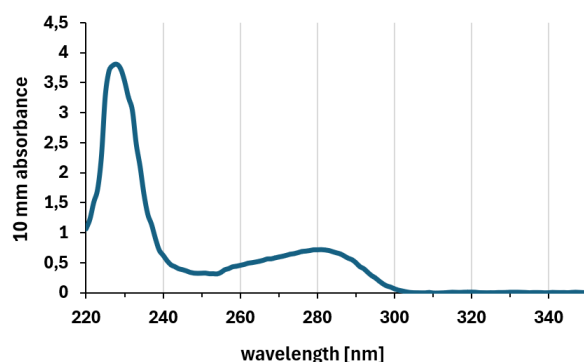


Certificate of analysis

Product number: GL-002
Product name: BC2L-A lectin produced recombinantly in *E. coli*, unconjugated
Form: Lyophilized powder
Unit size: 1 mg, 5 mg, 10 mg
LOT number: 12854

General quality test

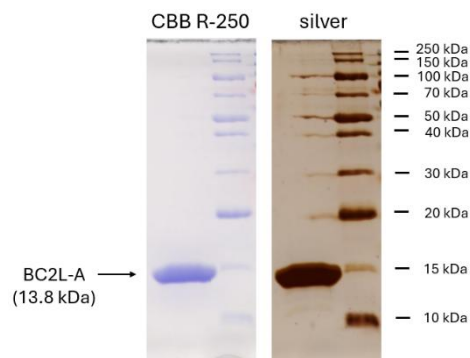
UV spectrometry, 1.16 mg/ml



$$A_{260}/A_{280} = 0.64$$

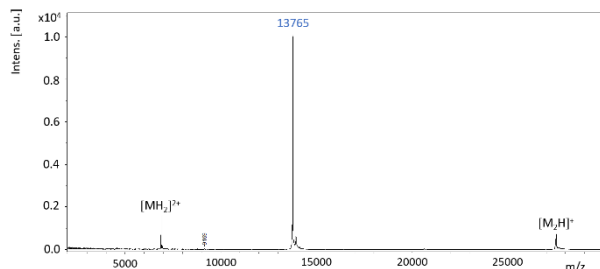
Purity

SDS-PAGE, 15% gel, 8.7 µg loaded



Identity

Intact mass analysis (MALDI-TOF)

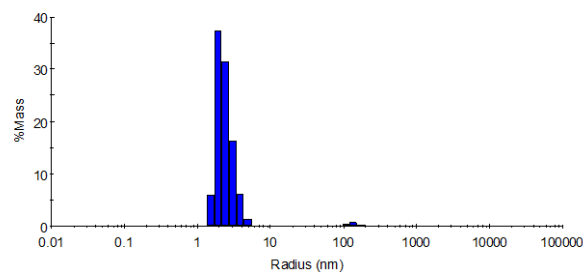


Molar mass (theoretical): 13764 Da

Molar mass (MS): 13765 Da

Homogeneity

Dynamic light scattering (DLS), 1.7 mg/ml, 25 °C

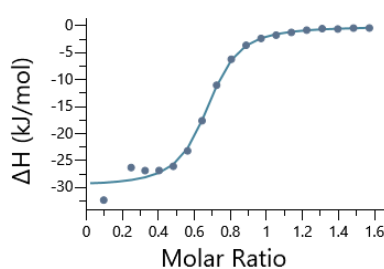
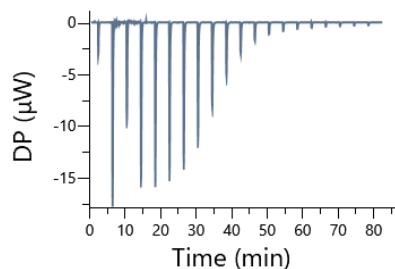


$R_h = 2.4$ nm (in 20 mM Tris, 150 mM NaCl, 3 mM $CaCl_2$, pH 7.4)

Activity

Isothermal titration calorimetry (ITC), 25 °C

BC2L-A, 390 µM (cell) + α MeMan, 3 mM (syringe), in 20 mM Tris, 150 mM NaCl, 3 mM $CaCl_2$, pH 7.4



$N = 0.64$
 $K_d = 4.5$ µM
 $\Delta H = -29.6$ kJ/mol
 $\Delta G = -30.5$ kJ/mol
 $-T\Delta S = -0.9$ kJ/mol

(apparent thermodynamic values,
no blank subtraction)