

Table S7. Coordination distances and temperature factors of the divalent metal ion (M^{2+}) and its ligand atoms in the glucose and xylitol complexes

	D-Glucose complex (mouse)		Xylitol complex (mouse)	
	Chain A	Chain B	Chain A	Chain B
Distance (Å)				
M^{2+} -Glu18	2.2	2.1	2.2	-
M^{2+} -Asn154	2.3	2.4	2.2	-
M^{2+} -Asp204	2.1	2.2	2.1	-
M^{2+} -OH(1) _{Glc} * ³	2.0	2.0	-	-
M^{2+} -OH(1) _{Xyl} * ⁴	-	-	1.9	-
M^{2+} -Wat1	2.3	2.2	2.1	-
M^{2+} -Wat2	2.6	-	2.4	-
B-factor (Å ²)				
M^{2+}	40.9	35.4	19.5	-
Glu18	33.7	40.4	31.4	-
Asn154	24.9	28.0	24.0	-
Asp204	32.7	34.7	26.1	-
OH(1) _{Glc} * ³	31.8	29.3	-	-
OH(1) _{Xyl} * ⁴	-	-	36.9	-
Wat1	32.1	33.4	28.1	-
Wat2	37.6	-	31.7	-

*³ OH(1)_{Glc} represents a hydroxyl group at C1 of D-glucose.

*⁴ OH(1)_{Xyl} represents a hydroxyl group at C1 of xylitol.