

APPENDIX B: SORPTION ISOTHERMS

EXPERIMENTAL DATA

5 °C	X, kg H ₂ O / kg d.m.			
a _w	0	0.08	0.20	0.31
	kg NaCl / kg d.m.	kg NaCl / kg d.m.	kg NaCl / kg d.m.	kg NaCl / kg d.m.
0.112	0.0690 ± 0.0107	0.0628 ± 0.0014	0.0608 ± 0.0019	0.0502 ± 0.0017
0.226	0.0963 ± 0.0551	0.1280 ± 0.0434	0.0902 ± 0.0096	0.0788 ± 0.0110
0.438	0.1217 ± 0.0015	0.1233 ± 0.0027	0.0984 ± 0.0171	0.0896 ± 0.0007
0.529	0.1602 ± 0.0050	0.1715 ± 0.0013	0.1442 ± 0.0030	0.1249 ± 0.0022
0.577	0.1892 ± 0.0042	0.2101 ± 0.0155	0.1789 ± 0.0036	0.1543 ± 0.0126
0.708	0.2587 ± 0.0054	0.3858 ± 0.0499	0.6410 ± 0.0301	0.8977 *
0.753	0.2512 ± 0.0011	0.3196 ± 0.0512	0.7011 ± 0.0137	1.0287 ± 0.0487
0.8	0.3004 ± 0.0180	0.4695 ± 0.0021	0.9600 ± 0.1238	1.3322 ± 0.0749
0.843	0.4187 ± 0.0115	0.6947 ± 0.0449	1.2136 ± 0.0445	1.8053 ± 0.0304
0.903	0.5286 ± 0.0596	0.8387 ± 0.0567	1.6703 ± 0.1069	2.6392 ± 0.0038
0.946	1.0163 ± 0.0067	1.7886 ± 0.1076	3.8890 ± 0.5823	4.7627 ± 0.2799

* Value without replicate

13 °C		X, kg H ₂ O / kg d.m.			
a _w	0	0.08	0.20	0.31	
	kg NaCl / kg d.m.	kg NaCl / kg d.m.	kg NaCl / kg d.m.	kg NaCl / kg d.m.	
0.112	0.0742 ± 0.0107	0.0741 ± 0.0047	0.0648 ± 0.0001	0.0555 ± 0.0089	
0.226	0.0720 ± 0.0043	0.0876 ± 0.0143	0.0667 ± 0.0025	0.0631 ± 0.0058	
0.438	0.1201 ± 0.0087	0.1272 ± 0.0000	0.1048 ± 0.0115	0.0860 ± 0.0061	
0.529	0.1508 ± 0.0120	0.1469 ± 0.0078	0.1344 ± 0.0013	0.1080 ± 0.0053	
0.577	0.1530 ± 0.0169	0.1655 ± 0.0167	0.1423 ± 0.0037	0.1291 ± 0.0258	
0.708	0.2170 ± 0.0074	0.3115 ± 0.0168	0.5692 ± 0.0636	0.8738 ± 0.0273	
0.753	0.2267 ± 0.0241	0.3817 ± 0.0033	0.6574 ± 0.0019	1.0475 ± 0.1635	
0.8	0.2833 ± 0.0113	0.4509 ± 0.0491	0.8805 ± 0.0707	1.2448 ± 0.0144	
0.843	0.3790 ± 0.0627	0.6221 *	1.1627 ± 0.1721	1.5699 ± 0.0271	
0.903	0.4517 ± 0.0140	0.7050 ± 0.0210	1.4195 ± 0.0095	2.1188 ± 0.0108	
0.946	0.6671 ± 0.0024	1.0146 ± 0.1386	2.3621 ± 0.4885	3.8708 ± 0.0756	

*Value without replicate

26 °C		X, kg H ₂ O / kg d.m.			
a _w	0	0.08	0.20	0.31	
	kg NaCl / kg d.m.	kg NaCl / kg d.m.	kg NaCl / kg d.m.	kg NaCl / kg d.m.	
0.112	0.0384 ± 0.0076	0.0315 ± 0.0218	0.0399 ± 0.0023	0.0267 ± 0.0038	
0.226	0.0582 ± 0.0024	0.0592 ± 0.0084	0.0513 ± 0.0001	0.0422 ± 0.0025	
0.438	0.0955 ± 0.0083	0.0865 ± 0.0031	0.0772 ± 0.0061	0.0712 ± 0.0059	
0.529	0.1190 ± 0.0076	0.1137 ± 0.0212	0.1005 ± 0.0101	0.0792 ± 0.0004	
0.577	0.1183 ± 0.0255	0.1321 *	0.1118 ± 0.0003	0.0943 ± 0.0017	
0.708	0.1819 ± 0.0019	0.2720 ± 0.0258	0.2202 ± 0.0332	0.1897 ± 0.0113	
0.753	0.1862 ± 0.0437	0.3407 ± 0.0063	0.5770 ± 0.0759	1.0385 ± 0.1303	
0.8	0.2451 ± 0.0157	0.3587 ± 0.0082	0.8246 ± 0.0434	1.0985 ± 0.0575	
0.843	0.3076 ± 0.0397	0.4989 ± 0.0123	1.0180 ± 0.0079	1.3906 ± 0.0654	
0.903	0.3884 ± 0.0107	0.6317 ± 0.0270	1.3231 ± 0.0955	1.8363 ± 0.0167	
0.946	0.5068 ± 0.0551	0.7520 ± 0.0556	1.6201 ± 0.2895	2.4299 ± 0.2174	

*Value without replicate

