

S4 Table: Full data for Arabinoxylan content (AX) and Mixed Linkage Glucan (MLG) by High Performance Anion Exchange Chromatography fingerprinting and monosaccharide analysis.

		GT 43_1 lines		Triple lines	
		T1-T6	N1-N6	T7-T8	C1-3
		mean ± SD	mean ± SD	mean ± SD	mean ± SD
Fingerprinting	Xylose (AU) % control	0.22 ± 0.116 18	1.25 ± 0.146	0.15 ± 0.077 16	0.93 ± 0.337
	Xyl2 (AU) % control	1.21 ± 0.240 50	2.41 ± 0.292	1.31 ± 0.374 65	2.03 ± 0.519
	Xyl3 (AU) % control	0.10 ± 0.051 66	0.15 ± 0.101	0.15 ± 0.065 71	0.21 ± 0.060
	Xyl5 (AU) % control	0.62 ± 0.196 78	0.79 ± 0.351	0.80 ± 0.176 76	1.05 ± 0.130
	XA3XX (AU) % control	0.67 ± 0.059 21	3.18 ± 0.177	0.40 ± 0.130 17	2.36 ± 0.986
	XA2+3XX (AU) % control	0.43 ± 0.188 26	1.70 ± 0.146	0.21 ± 0.061 16	1.34 ± 0.253
	XA3A3XX (AU) % control	0.32 ± 0.079 25	1.31 ± 0.082	0.19 ± 0.064 19	1.01 ± 0.226
	XA3XA3XX (AU) % control	0.08 ± 0.029 35	0.22 ± 0.015	0.05 ± 0.029 28	0.18 ± 0.023
	XA3A2+3XX (AU) % control	0.15 ± 0.051 43	0.35 ± 0.029	0.13 ± 0.046 40	0.34 ± 0.032
	XA3XA2+3XX (AU) % control	0.21 ± 0.051 26	0.79 ± 0.029	0.09 ± 0.046 16	0.54 ± 0.032
	Sum PkArea AX (AU) % control	4.01 ± 0.760 33	12.16 ± 0.772	3.49 ± 0.871 35	9.99 ± 2.705
	Sum PkArea MLG (AU) % control	2.49 ± 0.613 148	1.68 ± 0.323	3.61 ± 0.424 215	1.68 ± 0.317
	G3:G4 % control	1.71 ± 0.089 93	1.85 ± 0.258	1.67 ± 0.064 99	1.70 ± 0.318
	Sum PkArea AX: Sum PkArea MLG % control	1.74 ± 0.708 23	7.44 ± 1.327	0.96 ± 0.192 16	5.89 ± 0.875
Monosaccharides	TO-Ara (mg/g) % control	4.23 ± 0.848 66	6.44 ± 0.687	5.00 ± 0.659 62	8.04 ± 0.680
	TO-Gal (mg/g) % control	1.02 ± 0.533 54	1.89 ± 0.272	5.17 ± 0.359 112	4.60 ± 0.407
	TO-Xyl (mg/g)% control	5.38 ± 1.279 46	11.71 ± 1.227	8.32 ± 1.114 47	17.55 ± 0.930
	WE-Ara (mg/g) % control	0.83 ± 0.432 46	1.78 ± 0.266	1.83 ± 0.955 47	3.90 ± 0.103
	WE-Gal (mg/g) % control	0.94 ± 0.402 65	1.44 ± 0.168	2.90 ± 0.955 86	3.35 ± 0.103
	WE-Xyl (mg/g)% control	0.38 ± 0.222 21	1.84 ± 0.218	0.79 ± 0.483 20	3.97 ± 1.006
	TO-Ara : WE-Ara % control	6.22 ± 2.675 169	3.68 ± 0.607	3.99 ± 2.052 192	2.08 ± 0.316
	TO-Gal : WE-Gal % control	1.19 ± 0.815 89	1.33 ± 0.249	1.93 ± 0.512 141	1.37 ± 0.105
	TO-Xyl : WE-Xyl % control	17.69 ± 7.888 273	6.47 ± 1.173	15.41 ± 9.392 330	4.66 ± 1.144
	WE-Glc (mg/g)% control	10.01 ± 1.804 94	10.64 ± 2.869	44.63 ± 10.711 202	22.12 ± 8.230