

Supplemental Table I: Metabolite contents of C24 and *rsr4-1*.

Significant changes ($P < 0.05$) are marked in bold. Calibration was performed exactly as described in Roessner-Tunali *et al.* (2003).

	C24 (nmol/g FW)		<i>rsr4-1</i> (nmol/g FW)	
<i>Amino acids</i>				
alanine	191.95	\pm 8.10	131.79	\pm 16.55
Arginine	6.47	\pm 0.76	6.63	\pm 2.38
asparagine	407.40	\pm 38.25	393.68	\pm 159.82
aspartate	28.55	\pm 2.58	76.55	\pm 21.62
beta-alanine	5.36	\pm 0.49	8.98	\pm 0.45
gamma-aminobutyrate	48.43	\pm 8.34	39.14	\pm 5.42
Glutamate	329.67	\pm 36.92	558.96	\pm 114.84
glutamine	3435.42	\pm 1150.34	1697.79	\pm 291.81
glycine	267.44	\pm 40.91	74.06	\pm 11.61
isoleucine	21.34	\pm 1.65	37.39	\pm 4.55
Leucine	16.02	\pm 1.76	34.17	\pm 4.32
ornithine	30.17	\pm 3.72	35.02	\pm 16.58
phenylalanine	7.88	\pm 0.53	16.13	\pm 2.65
Pyroglutamate	526.28	\pm 77.73	846.06	\pm 150.09
proline	359.69	\pm 58.10	705.77	\pm 88.00
serine	1772.63	\pm 244.49	2784.52	\pm 490.70
threonine	4473.24	\pm 640.31	7878.50	\pm 694.22
valine	56.47	\pm 3.77	68.53	\pm 5.31
Total amino acids	11984.39	\pm 2318.74	15384.34	\pm 2080.03
<i>Organic acids</i>				
alpha-keto-glutarate	2.04	\pm 0.26	3.69	\pm 0.93
benzoate	968.05	\pm 28.68	860.33	\pm 33.94
citrate	47.95	\pm 6.62	272.80	\pm 72.23
fumarate	155.88	\pm 18.71	237.55	\pm 26.99
gluconate	127.03	\pm 23.26	66.27	\pm 10.39
glycerate	30.34	\pm 7.29	11.00	\pm 0.27
glycolate	20.42	\pm 0.92	16.52	\pm 0.85
malate	670.63	\pm 107.50	7960.23	\pm 2834.94
shikimate	20.99	\pm 1.88	9.98	\pm 0.62
Succinate	163.12	\pm 22.81	176.11	\pm 31.90
threonate	6.86	\pm 0.62	7.99	\pm 1.11
Total organic acids	9129.23	\pm 909.52	12686.84	\pm 3349.30
<i>Sugars</i>				
arabinose	4.07	\pm 0.43	3.72	\pm 0.33
fructose	170.75	\pm 35.27	252.04	\pm 86.63
galactose	22.67	\pm 1.71	32.20	\pm 6.44
gentiobiose	63.42	\pm 14.99	100.40	\pm 6.41
glucose	583.68	\pm 114.06	557.43	\pm 166.63
maltose	33.26	\pm 2.29	48.69	\pm 3.75
mannose	3.81	\pm 0.33	8.14	\pm 2.25
raffinose	4.23	\pm 1.37	34.83	\pm 8.07
rhamnose	6.12	\pm 0.80	5.23	\pm 0.28
ribose	5.83	\pm 0.39	6.17	\pm 0.42
sucrose	2482.67	\pm 224.15	3960.99	\pm 791.67
trehalose	1.75	\pm 0.19	1.25	\pm 0.09
Total sugars	3382.27	\pm 395.98	5011.09	\pm 1073.00