

Figure 3_figure supplement 4

FY4 wild-type strain grown in SGE(Glycerol Ethanol)casaWU ± Adenine medium

Peak area

Metabolite	- Ade	- Ade	- Ade	- Ade	- Ade	- Ade	- Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	Mean - Ade	Mean + Ade	SD - Ade	SD + Ade	Unpaired t-Test - Ade vs + Ade
ATP	155.0	161.0	165.6	163.8	163.2	158.0	163.6	197.0	193.8	197.6	189.5	220.2	193.0	208.3	211.2	161.5	201.3	3.7	10.7	4.3E-06
NAD+	4.7	5.1	4.2	4.4	5.0	5.1	5.4	5.5	6.1	5.2	5.5	6.2	6.2	6.2	6.4	4.8	5.9	0.4	0.4	3.3E-04
ADP	36.9	34.8	40.7	40.8	38.8	42.1	43.3	45.7	44.5	44.6	46.1	50.2	46.4	46.0	50.8	39.6	46.8	3.0	2.4	
AMP	10.4	8.9	9.4	8.9	8.7	9.7	10.3	12.5	12.8	9.5	10.7	10.9	9.7	9.9	11.4	9.5	10.9	0.7	1.2	

Relative peak area (mean peak area from cells grown in the presence of adenine was set at 1 and used to calculate the relative peak areas)

Metabolite	- Ade	- Ade	- Ade	- Ade	- Ade	- Ade	- Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	Mean - Ade	Mean + Ade	SD - Ade	SD + Ade	Unpaired t-Test - Ade vs + Ade
ATP	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	0.9	1.1	1.0	1.0	1.0	0.8	1.0	0.0	0.1	4.3E-06
NAD+	0.8	0.9	0.7	0.7	0.8	0.9	0.9	0.9	1.0	0.9	0.9	1.0	1.0	1.0	1.1	0.8	1.0	0.1	0.1	3.3E-04
ADP	0.8	0.7	0.9	0.9	0.8	0.9	0.9	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.1	0.8	1.0	0.1	0.1	
AMP	1.0	0.8	0.9	0.8	0.8	0.9	0.9	1.1	1.2	0.9	1.0	1.0	0.9	0.9	1.0	0.9	1.0	0.1	0.1	

Content

(nmol)

Metabolite	- Ade	- Ade	- Ade	- Ade	- Ade	- Ade	- Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	Mean - Ade	Mean + Ade	SD - Ade	SD + Ade	Unpaired t-Test - Ade vs + Ade
ATP	8.07	8.39	8.63	8.53	8.50	8.23	8.52	10.26	10.09	10.29	9.87	11.47	10.05	10.85	11.00	8.4	10.5	0.2	0.6	4.3E-06
ADP	2.19	2.07	2.42	2.43	2.31	2.51	2.58	2.72	2.65	2.65	2.74	2.99	2.76	2.74	3.02	2.4	2.8	0.2	0.1	
AMP	0.54	0.46	0.48	0.46	0.45	0.50	0.53	0.65	0.66	0.49	0.55	0.56	0.50	0.51	0.59	0.5	0.6	0.0	0.1	
AXP	10.80	10.92	11.53	11.42	11.26	11.24	11.63	13.62	13.40	13.44	13.16	15.02	13.31	14.10	14.61	11.3	13.8	0.3	0.7	
AEC	0.85	0.86	0.85	0.85	0.86	0.84	0.84	0.85	0.85	0.86	0.85	0.86	0.86	0.86	0.87	0.9	0.9	0.0	0.0	7.5E-02

Relative content (mean AXP content from cells grown in the presence of adenine was set at 1 and used to calculate relative content)

	- Ade	- Ade	- Ade	- Ade	- Ade	- Ade	- Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	+ Ade	Mean - Ade	Mean + Ade	SD - Ade	SD + Ade	Unpaired t-Test - Ade vs + Ade
AXP	0.78	0.79	0.83	0.83	0.81	0.81	0.84	0.98	0.97	0.97	0.95	1.09	0.96	1.02	1.06	0.8	1.0	0.0	0.0	2.0E-06

nmol/peak area unit (determined with pure compounds as described in the Material and Methods section)

ATP	19.2
ADP	16.8
AMP	19.4

p>0.05
0.05<p>0.01
0.01<p>0.001
p<0.001