

	Control		Pinene		p-value
	Mean	SD	Mean	SD	
Glucose 1-phosphate	40.19	5.31	28.37	5.11	p<0.05
Glucose 6-phosphate	74.23	16.76	77.12	12.13	NS
Fructose 6-phosphate	11.95	2.34	13.40	2.30	NS
Fructose 1,6-diphosphate	166.67	50.13	188.55	15.65	NS
Dihydroxyacetone phosphate	5.13	0.46	4.48	1.81	NS
3-Phosphoglyceric acid	26.02	4.46	29.07	9.29	NS
Phosphoenolpyruvic acid	13.35	1.98	14.64	2.85	NS
Pyruvic acid	454.86	58.85	492.66	164.68	NS
Lactic acid	22944.91	3268.33	21769.76	2896.40	NS
Citric acid	799.34	82.67	837.95	103.90	NS
cis-Aconitic acid	10.74	0.68	11.56	2.19	NS
Isocitric acid	12.02	0.48	11.33	5.45	NS
Succinic acid	1377.94	183.77	1299.81	300.45	NS
Fumaric acid	207.24	18.38	216.07	25.79	NS
Malic acid	1031.55	125.82	1028.19	118.67	NS
Gluconic acid	14.75	1.84	15.72	2.31	NS
6-Phosphogluconic acid	21.02	3.78	16.59	6.54	NS
Ribulose 5-phosphate	180.13	38.99	173.62	32.64	NS
Ribose 5-phosphate	4.93	0.77	6.80	5.40	NS
Sedoheptulose 7-phosphate	19.41	2.91	18.80	3.45	NS
PRPP	8.57	1.91	9.72	1.18	NS
Hypoxanthine	65.66	19.11	59.18	17.96	NS
Inosine	126.91	30.84	151.34	96.41	NS
IMP	590.60	54.31	591.71	82.71	NS
Adenine	3.71	1.18	3.20	1.28	NS
Adenosine	288.91	71.70	231.95	135.31	NS
AMP	2584.23	275.86	2576.42	323.87	NS
ADP	739.04	200.17	708.35	94.36	NS
ATP	664.99	201.51	737.08	288.95	NS
cAMP	15.94	2.64	17.57	7.91	NS
dATP	0.21	0.04	0.22	0.02	NS
Guanine	2.27	0.59	1.91	0.57	NS
Guanosine	21.43	6.30	19.10	5.49	NS
GMP	396.72	51.38	396.19	66.10	NS
GDP	338.83	38.69	329.30	49.90	NS
GTP	264.78	35.45	243.22	93.62	NS
cGMP	8.78	3.57	6.60	5.81	NS
Cytosine	1.16	0.22	0.99	0.23	NS
Cytidine	18.03	3.19	17.17	4.26	NS
CMP	40.88	7.44	45.46	5.61	NS
CDP	7.12	1.44	9.00	2.57	NS
CTP	5.50	1.54	7.03	3.96	NS
Uracil	17.81	3.26	16.49	2.70	NS
Uridine	65.78	12.98	60.43	8.11	NS
UTP	28.56	9.33	34.89	25.95	NS
dTMP	0.33	0.05	0.35	0.05	NS
dTDP	1.05	0.19	0.95	0.28	NS
NAD+	787.83	103.71	749.38	127.08	NS
NADH	8648.81	1093.16	7785.53	2382.57	NS
NADP+	21.76	1.52	21.18	5.06	NS
NADPH	2766.69	350.98	2455.19	1404.68	NS
FAD	813.59	136.39	722.84	160.49	NS
CoA	1232.27	617.99	722.89	847.80	NS
Glycerol-3-phosphate	1254.81	196.61	1167.62	317.58	NS
Anthranilic acid	2.64	0.52	2.79	0.92	NS

Glutathione (GSSG) divalent	328.37	52.41	416.04	103.83 NS
Glutathione (GSH)	967.99	148.30	727.44	370.48 NS
Ornithine	5.47	1.23	4.97	1.65 NS
Citrulline	6.11	1.25	6.65	1.96 NS
Putrescine	1.41	0.44	1.41	0.56 NS
Spermidine	5.03	0.77	6.02	1.55 NS
Spermine	2.49	1.44	4.16	2.33 NS
Creatine	5313.13	600.26	5561.02	826.26 NS
Creatinine	15.98	1.88	14.90	2.39 NS
γ-Aminobutyric acid	3277.77	535.00	3460.65	390.96 NS
Carnosine	103.64	19.16	93.92	12.16 NS
β-Ala	96.09	16.45	108.67	24.49 NS
Tyramine	0.33	0.12	0.39	0.05 NS
Hydroxyproline	11.98	1.82	14.34	1.96 NS
Homoserine	5.68	1.23	5.94	0.78 NS
S-Adenosylmethionine	16.46	3.11	15.30	4.95 NS
Gly	1190.90	168.13	1128.87	103.02 NS
Ala	544.04	102.45	575.04	78.98 NS
Val	87.16	12.65	89.91	17.69 NS
Ile	34.19	4.34	33.33	7.23 NS
Leu	66.42	10.07	66.93	11.20 NS
Phe	75.86	13.03	79.44	15.66 NS
Tyr	79.29	17.51	80.86	16.81 NS
Trp	13.35	1.84	13.56	3.77 NS
Met	49.21	9.51	52.95	7.35 NS
Cys	4.75	1.77	2.64	1.37 NS
Pro	69.97	13.50	73.25	9.33 NS
Lys	182.20	22.61	193.63	29.33 NS
Arg	88.83	26.03	87.03	29.66 NS
His	85.14	14.20	85.45	13.65 NS
Asp	1774.79	228.05	1780.84	209.54 NS
Glu	4186.56	573.10	4388.49	570.60 NS
Ser	572.92	85.49	616.33	84.12 NS
Thr	318.78	40.41	345.61	6.59 NS
Asn	79.40	11.55	75.40	15.78 NS
Gln	3342.51	423.30	3419.06	425.38 NS