

**Table S1.** Amino acids data from soybean plants submitted to two temperatures (25 °C and 40 °C) and two SNP concentrations (0 e 100 µM).

Amino acids	25°C				40°C	
	0 µM		100 µM		0 µM	100 µM
Lysine	60.26	2.34 Ba	16.18	1.91 Bb	91.87 ± 8.68 Aa	35.63 ± 2.63 Ab
Histidine	6.53	0.53 Ba	4.34	0.63 Bb	12.43 ± 1.39 Aa	9.34 ± 0.71 Ab
Arginine	47.93	3.03 Aa	13.18	1.04 Bb	78.87 ± 15.12 Aa	71.31 ± 4.21 Aa
Glycine	265.88	25.25 Aa	69.44	19.01 Bb	235.41 ± 33.81 Aa	177.01 ± 29.84 Aa
Serine	13,089.8	2180 Aa	2153.08	406.61 Bb	15,929.88 ± 2212.8 Aa	14,756.77 ± 3329.51 Aa
Asparagine	8.24	1.06 ns	7.76	1.75 ns	19.75 ± 2.91 ns	22.72 ± 2.56 ns
Alanine	18,594.1	1460 Aa	3218.04	676.3 Bb	18719.56 ± 3547.42 Aa	22,356.04 ± 5602.2 Aa
Aspartic acid	11.6	2.03 Ba	4.01	0.46 Bb	24.68 ± 0.75 Aa	23.31 ± 1.75 Aa
Glutamine	26.96	5.65 ns	20.17	2.27 ns	45.41 ± 4.58 ns	21.13 ± 1.82 ns
Threonine	141.15	16.86 Aa	34.53	4.14 Bb	71.51 ± 8.98 Ba	98.14 ± 9.21 Aa
Glutamic acid	22.23	4.82 ns	37.57	7.13 ns	51.28 ± 8.7 ns	47.97 ± <b>10.665</b> ns
Proline	214.58	13.53 ns	57.84	8.33 ns	192.91 ± 32.79 ns	122.62 ± 16.65 ns
Valine	372.18	16.41 ns	269.50	43.27 ns	451.98 ± 1.84 ns	455.32 ± 29.33 ns
Methionine	107.78	16.42 ns	38.65	6.09 ns	154.38 ± 17.59 ns	73.2 ± 9.7 ns
Isoleucine	376.49	11.67 Aa	250.85	41.81 Bb	468.55 ± 40 Aa	561.86 ± 34.28 Aa
Leucine	6877.07	306.98 Aa	2878.11	338.74 Bb	6826.62 ± 1026.22 Aa	7833.43 ± 670.33 Aa
Tyrosine	3970.78	285.61 Ba	3086.43	594.58 Aa	5451.49 ± 631.18 Aa	3621.04 ± 446.13 Ab
Phenylalanine	4892.15	636.07 Ba	4872.75	675.06 Aa	7474.93 ± 602.01 Aa	5709.26 ± 437.32 Ab
Tryptophan	250.99	9.6 Ba	257.55	37 Aa	454.4 ± 43.09 Aa	334.51 ± 14.68 Ab

**Table S2.** Carbohydrates, polyols and organic acids data from soybean plants submitted to two temperatures (25 °C and 40 °C) and two SNP concentrations (0 e 100 µM).

Carbohydrates / Polyols / Organic acids	25 °C				40 °C	
	0 µM		100 µM		0 µM	100 µM
Pentaerythritol	433.66	3.21 ns	430.29	3.30 ns	443.22 ± 8.66 ns	461.63 ± 4.68 ns
Aminobutyric acid	2637.90	340.99 ns	893.47	72.72 ns	2774.79 ± 354.03 ns	1562.42 ± 123.14 ns
Ribose	1307.12	163.70 Aa	719.53	226.23 Ba	1322.48 ± 97.97 Ab	2131.92 ± 448.80 Aa
Fructose	1245.40	112.48 ns	895.20	86.42 ns	4527.75 ± 813.05 ns	5112.19 ± 982.19 ns
Citric acid	2580.58	227.20 ns	2443.95	257.74 ns	3710.10 ± 255.70 ns	3197.21 ± 222.13 ns
Pinitol	3109.23	75.33 ns	740.01	65.44 ns	15,293.97 ± 734.01 ns	13,653.67 ± 1708.34 ns
Glucose	1142.67	83.14 ns	787.42	67.76 ns	2245.01 ± 450.68 ns	2099.75 ± 395.94 ns
Mannose	2138.62	108.07 Ba	774.45	85.45 Bb	3938.95 ± 283.19 Aa	3397.77 ± 157.69 Ab
D-Mannitol	831.74	252.73 Aa	948.46	185.52 Ba	349.52 ± 42.73 Ab	2607.14 ± 601.24 Aa
D-(+)-Chiro-Inositol	1007.41	76.83 ns	375.00	45.13 ns	2274.94 ± 307.36 ns	1710.05 ± 200.31 ns
Myo-Inositol	1786.03	271.80 Aa	627.71	63.68 Ab	609.66 ± 50.89 Ba	686.31 ± 57.77 Aa