

Citrate-coated cobalt ferrite nanoparticles for the nano-enabled biofortification of wheat

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Table S8 The concentration of soluble polysaccharide fractions and free amino acids in wheat grains

Genotype	Type application	Treatment	Glucose (μmol/g)	Fructose (μmol/g)	Saccharose (μmol/g)	Free aminoacids as glicine (mM/kg)
MULTIAF2	Soil application	Control	3.25±1.10	0.05±0.01 b A	13.70±0.59 b	11.75±1.14
		Fe-EDTA	3.22±1.19	0.11±0.02 a	21.54±4.05 a A	14.77±3.26
		NPs 46	3.34±2.29	0.07±0.03 ab B	18.62±2.08 ab	18.75±7.11
		NPs 68	3.74±2.00	0.07±0.03 ab	14.95±0.89 b	12.52±0.45
	Foliar application	Fe-EDTA	3.03±1.19	0.07±0.01 ab	13.90±1.51 b	15.62±6.78
		NPs	2.52±0.58	0.07±0.02 ab	15.68±0.92 b	11.67±1.56
		Mean	3.18 ±1.32	0.07 ±0.03	16.39±3.37	14.18 ±4.45
	AF1104	Soil application	Control	0.89±1.15	0.06±0.01	14.72±5.37
Fe-EDTA			3.99±0.72	0.05±0.03	18.13±3.98	13.35±1.18
NPs 46			2.77±1.16	0.09±0.03	15.00±5.15	9.98±0.84
NPs 68			1.34±2.13	0.05±0.02	14.10±1.88	15.30±4.80
Foliar application		Fe-EDTA	2.93±0.84	0.07±0.03	17.14±0.23	12.42±2.71
		NPs	0.81±0.78	0.06±0.01	15.75±1.99	12.21±2.24
		Mean	2.12±1.60	0.06±0.02	15.80±3.37	12.63±2.96
AF1116		Soil application	Control	2.83±1.17	0.05±0.01 A	14.51±0.66
	Fe-EDTA		2.77±2.94	0.07±0.04	13.63±2.11	12.93±0.77
	NPs 46		0.41±0.73	0.07±0.02	13.14±1.49 B	11.88±3.30
	NPs 68		3.25±2.59	0.05±0.02	17.57±1.27	12.63±2.79
	Foliar application	Fe-EDTA	1.23±0.98	0.10±0.02	14.50±3.59	19.13±3.51
		NPs	2.17±0.67	0.08±0.02	17.40±0.83	20.54±5.95
		Mean	2.11±1.80	0.07±0.03	15.12±2.40	15.49±2.95

Mean±standar deviation of n=3. Different lowercase letters represent significant differences (Tukey α=0.05) between treatment within the line. Capital letters represent differences due to the treatment*line effect.