

Root and rhizosphere microbiome of tomato plants grown in the open field in the south of West Siberia under mineral fertilization

Table S1. Climate (as averaged 1991-2000, available online: <https://meteoinfo.ru/climatecities?p=1930>, accessed on 31 October 2022) characteristics of the region where the experiment was performed

Month	Average monthly air temperature, °C	Average monthly atmospheric pressure, mbar at sea level	Average monthly precipitation, mm	Number of days with precipitation ≥ 1 mm
May	12.5	1014	34	7
June	18.2	1009	59	9
July	20.2	1006	69	9
August	18.6	1010	53	9
September	10.8	1016	42	9

2

Table S2. Soil (Phaeozem) properties at the experimental site in the south of West Siberia, mean \pm standard deviation

Soil property	No	NPK
pH	7.57 \pm 0.06 b ¹	7.36 \pm 0.03 a
SOC ² , %	9.0 \pm 0.8	8.8 \pm 1.0
SIC, %	0.58 \pm 0.09	0.53 \pm 0.05
STN, %	0.53 \pm 0.08	0.55 \pm 0.08
NO ₃ ⁻ , mg N kg ⁻¹ soil	70 \pm 12 a	262 \pm 96 b
Available P-P ₂ O ₅ , mg kg ⁻¹ soil	7.0 \pm 2.3	6.8 \pm 1.8
K _{ex} , mg kg ⁻¹ soil	144 \pm 2 a	171 \pm 1 b
Ca _{ex} , g kg ⁻¹ soil	5.46 \pm 0.31	5.74 \pm 0.20
Mg _{ex} , mg kg ⁻¹ soil	405 \pm 48 b	339 \pm 57 a

¹ Different letters in rows indicate statistically significant difference at $P \leq 0.05$ (Fisher's LSD test); the absence of letters indicates no differences. ² Abbreviations: SOC – soil organic C, SIC – soil inorganic C, STN – soil total nitrogen, K_{ex}, Ca_{ex} and Mg_{ex} refer to the elements' extractable forms and are expressed as the mass units of the respective element; No – no fertilizer, NPK – mineral fertilizer.