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Soil Research

Supplementary Material

Effect in soil and rhizosphere microbiota of *Brachiaria* inoculated with *Azospirillum brasilense*: a pilot trial in two oxisol types

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Table S1. Two-way ANOVA analysis of the effects of soil (medium texture and clay soil) and treatments (non-inoculated *B. ruziziensis*; inoculated with *A. brasilense*) on the fresh and dry aerial plant biomass, and fresh and dry root plant biomass.

Source of variation	df	SS	MS	F	Pr>F
Fresh Aerial Biomass					
Soil	1	1012	1012.5	4.717	0.0452 *
Treat	1	668	667.8	3.111	0.0968 .
Soil:Treat	1	304	303.7	1.415	0.2516
Residuals	16	3434	214.6		
Dry Aerial Biomass					
Soil	1	42.46	42.46	3.217	0.0918 .
Trat	1	36.23	36.23	2.745	0.1171
Soil:Treat	1	32.03	32.03	2.427	0.1389
Residuals	16	211.18	13.20		
Fresh Root Biomass					
Soil	1	154.89	154.89	9.912	0.00622 **
Trat	1	225.79	225.79	14.449	0.00157 **
Soil:Treat	1	1.03	1.03	0.066	0.80073
Residuals	16	250.03	15.63		
Dry Root Biomass					
Soil	1	33.66	33.66	25.941	0.000108 ***
Trat	1	3.76	3.76	2.901	0.107888
Soil:Treat	1	0.25	0.25	0.191	0.667974
Residuals	16	20.76	1.30		

Signif. codes: ***: 0.001; **: 0.01; *: 0.05; and .: 0.1.

Table S2. Morphophysiological characteristics of *Brachiaria* plants inoculated with *A. brasilense*.

Treatment	Shoot Fresh Biomass	
	Soil type	
	C	Mt
Control	44.935 Ab	43.499 Aa
<i>Azospirillum</i>	73.486 Aa	50.461 Ba
Treatment	Shoot Dry Biomass	
	Soil type	
	C	Mt
Control	10.234 Ab	11.631 Aa
<i>Azospirillum</i>	17.967 Aa	11.012 Ba
Treatment	Root Fresh Biomass	
	Soil type	
	C	Mt
Control	10.454 Ba	17.640 Aa
<i>Azospirillum</i>	5.354 Bb	12.252 Ab
Treatment	Root Dry Biomass	
	Soil type	
	C	Mt
Control	5.354 Ba	8.171 Aa
<i>Azospirillum</i>	4.709 Ba	7.081 Aa

Media followed by the same capital letter in the column (treatments in different types of oxisol) and lowercase letter in the column (treatments-control and inoculated) do not differ significantly by the Tukey test ($P > 0.05$). (n=5 ± Standard deviation)