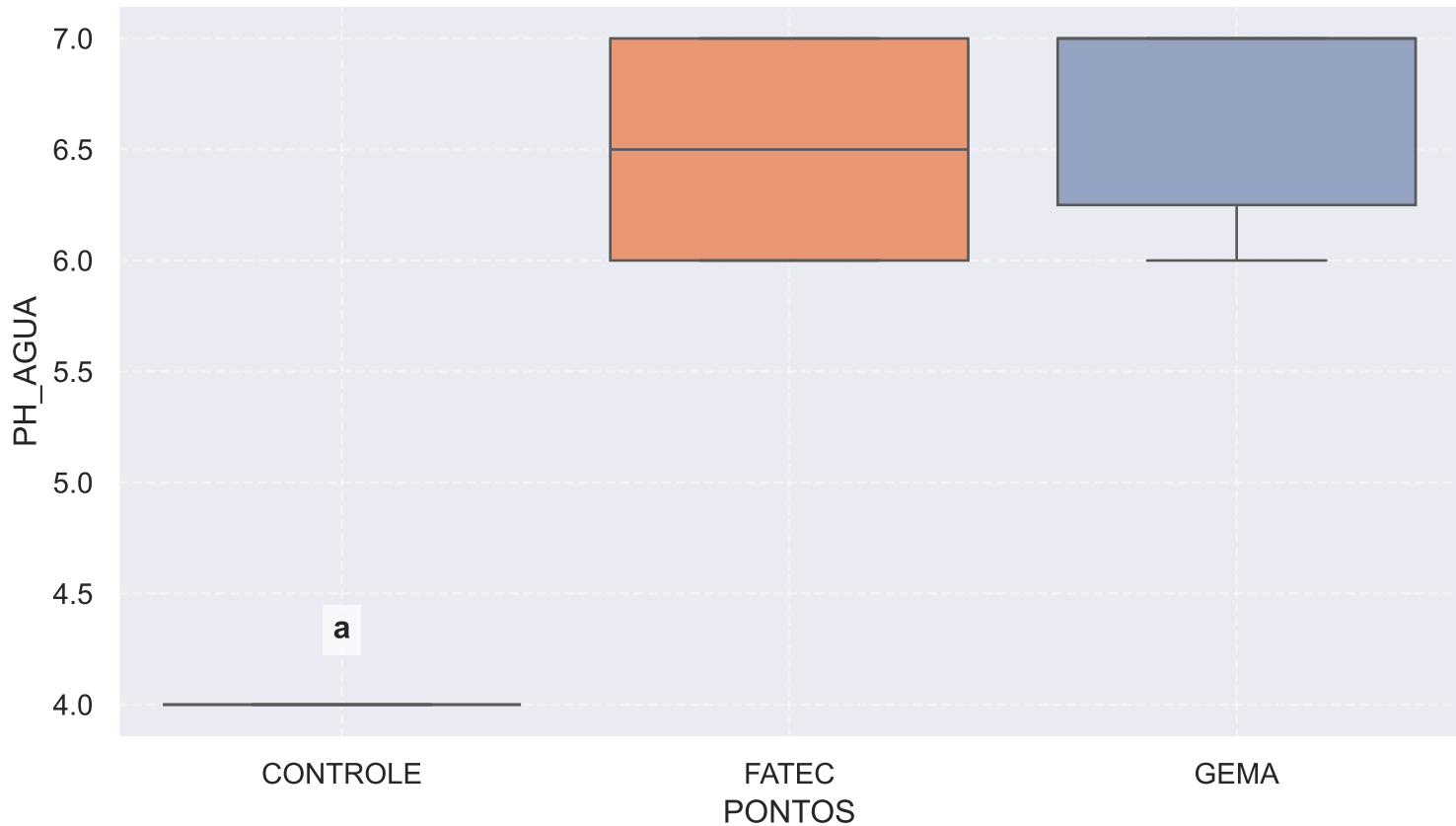


# **Análise estatística e gráfica — TCC**

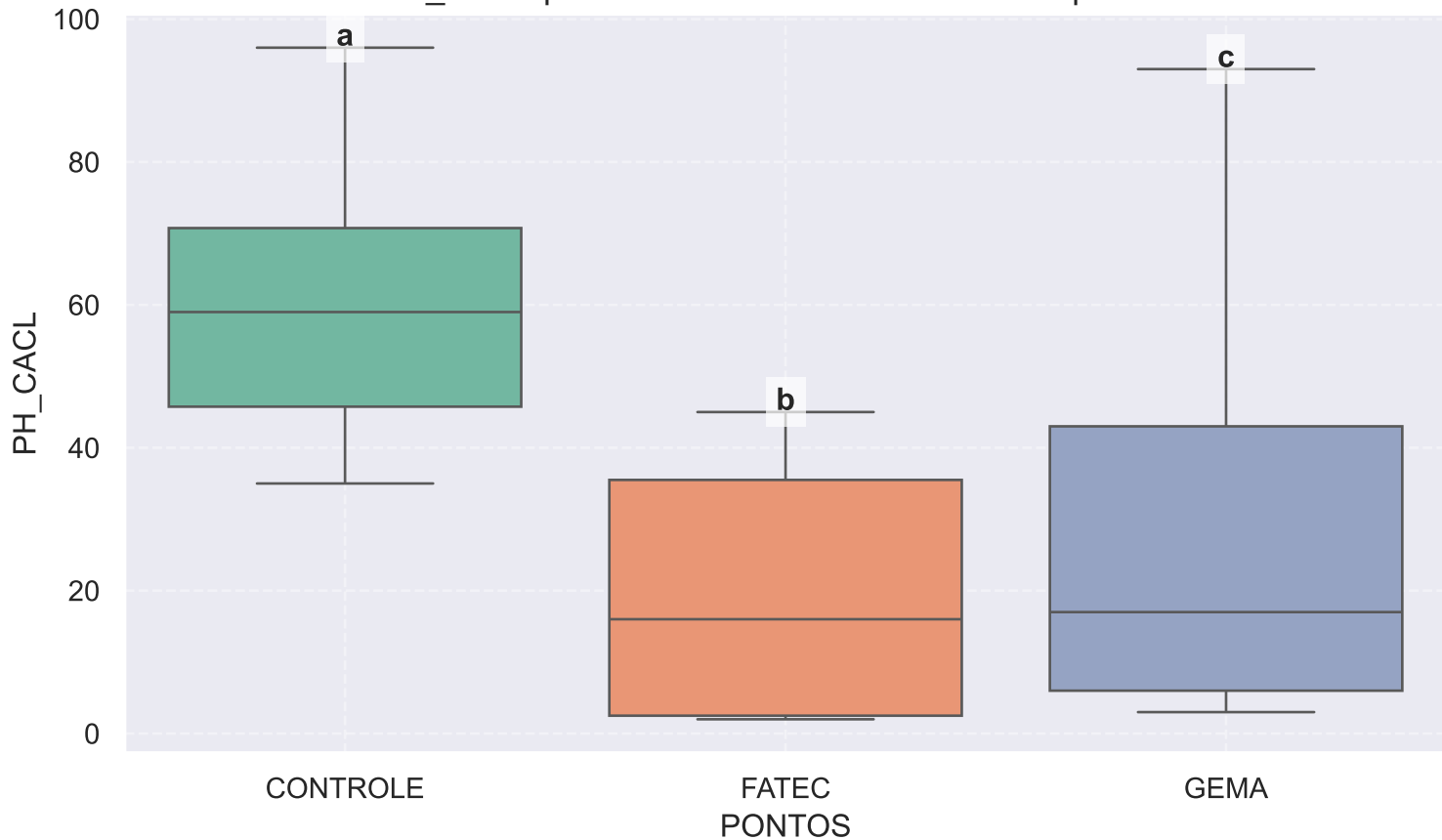
Relatório gráfico e estatístico — TCC

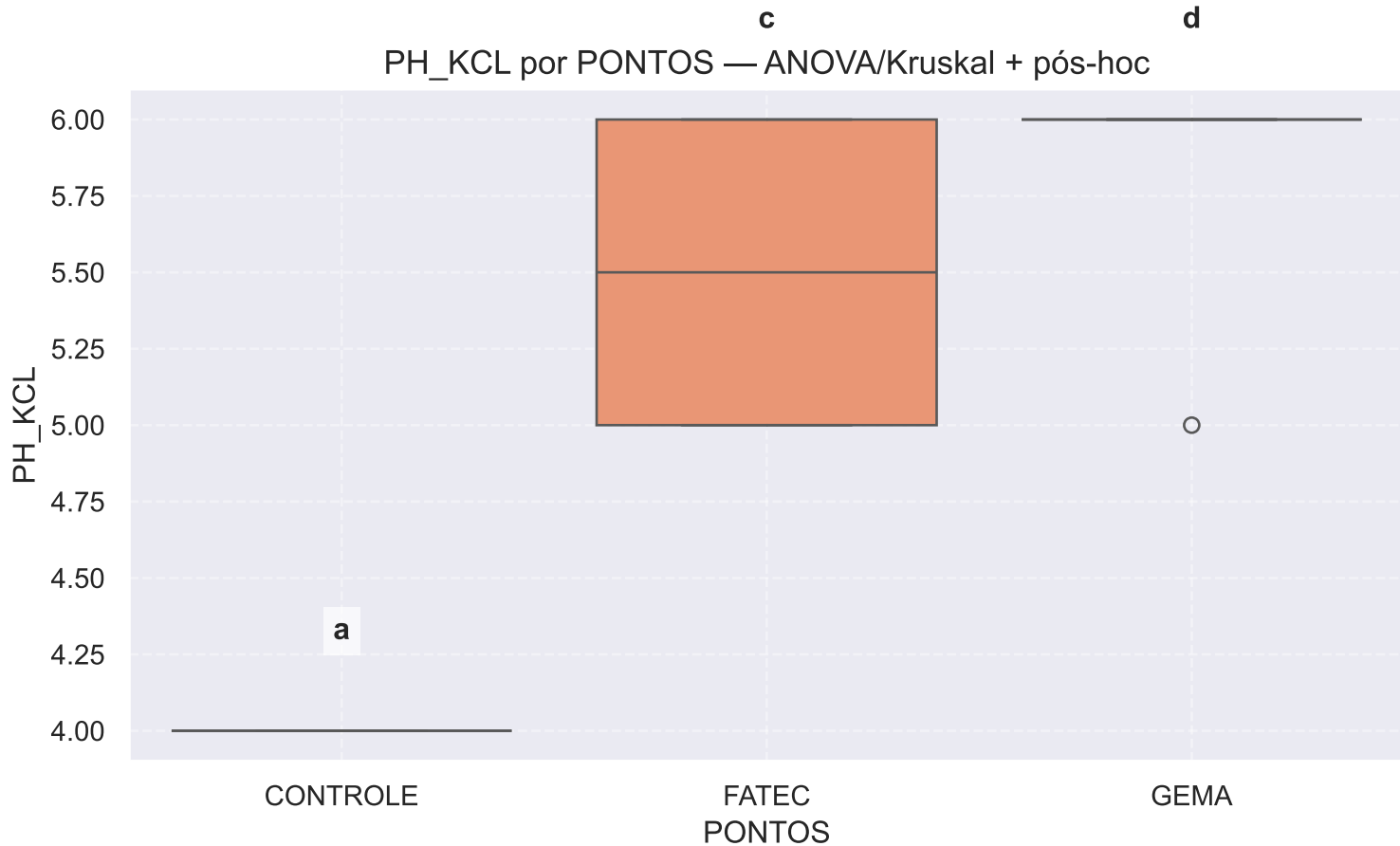
*Gerado automaticamente com Python*

PH\_AGUA por PONTOS — ANOVA/Kruskal + pós-hoc <sup>c</sup> <sup>d</sup>

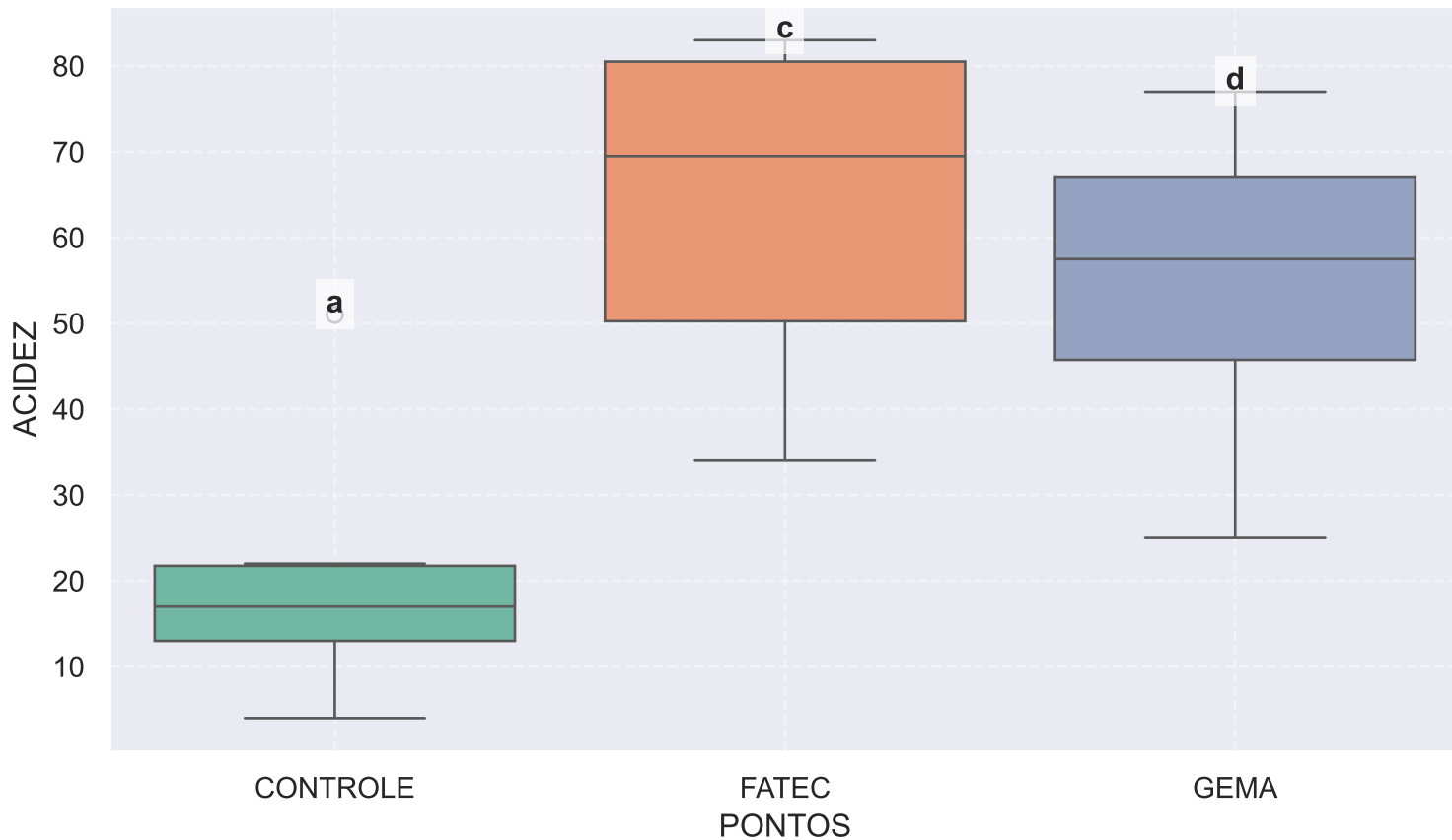


PH\_CACL por PONTOS — ANOVA/Kruskal + pós-hoc

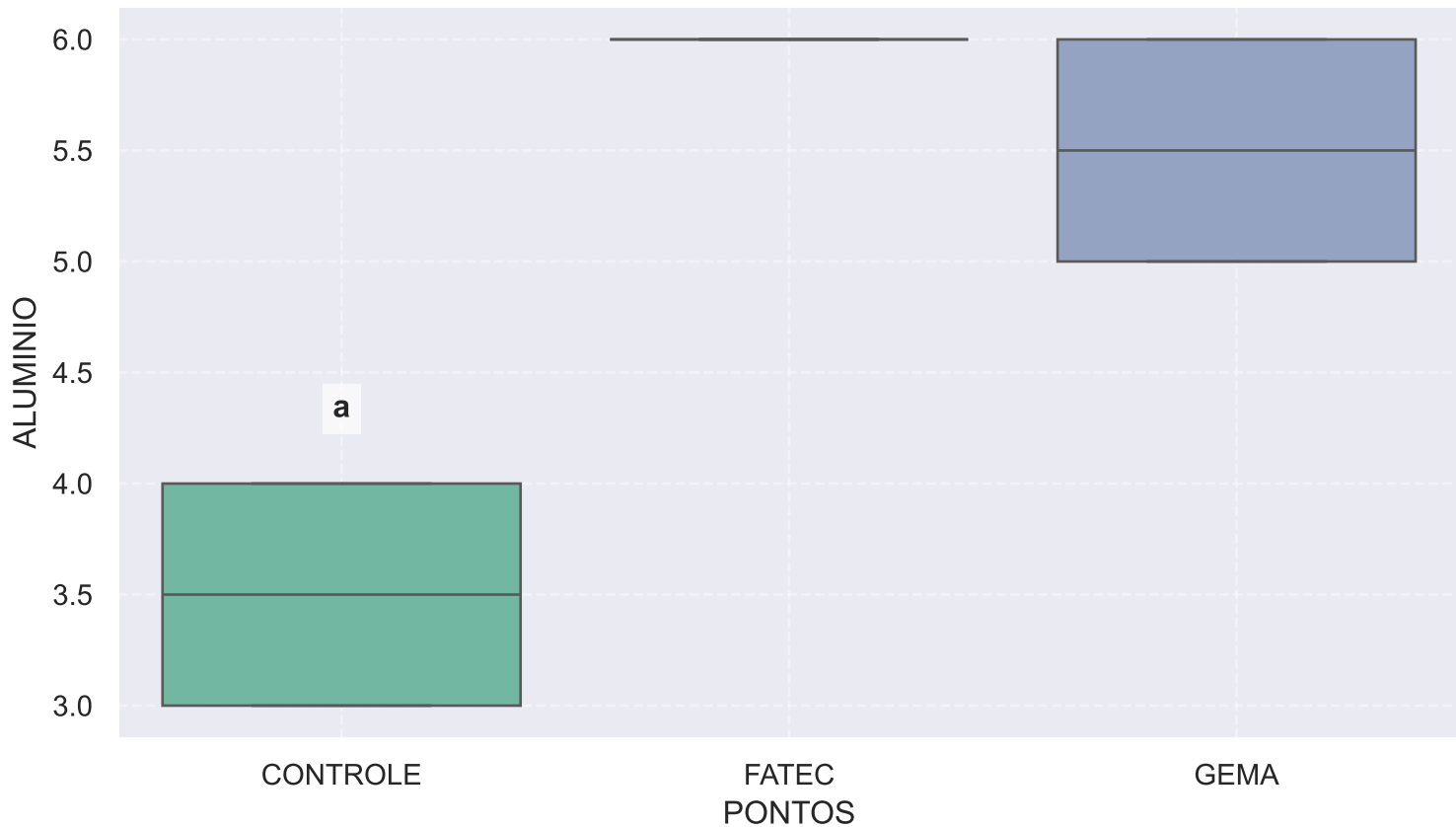




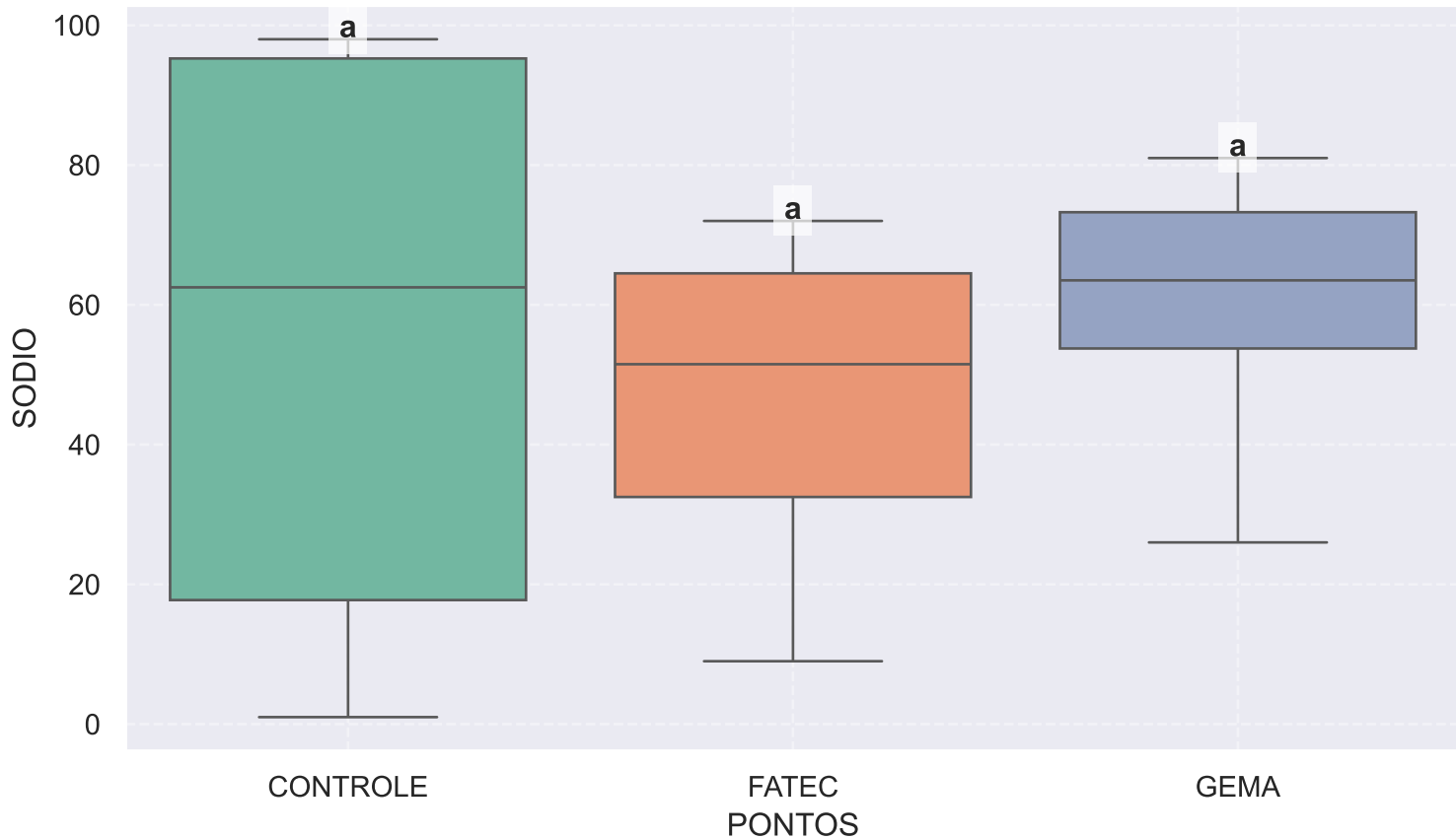
ACIDEZ por PONTOS — ANOVA/Kruskal + pós-hoc



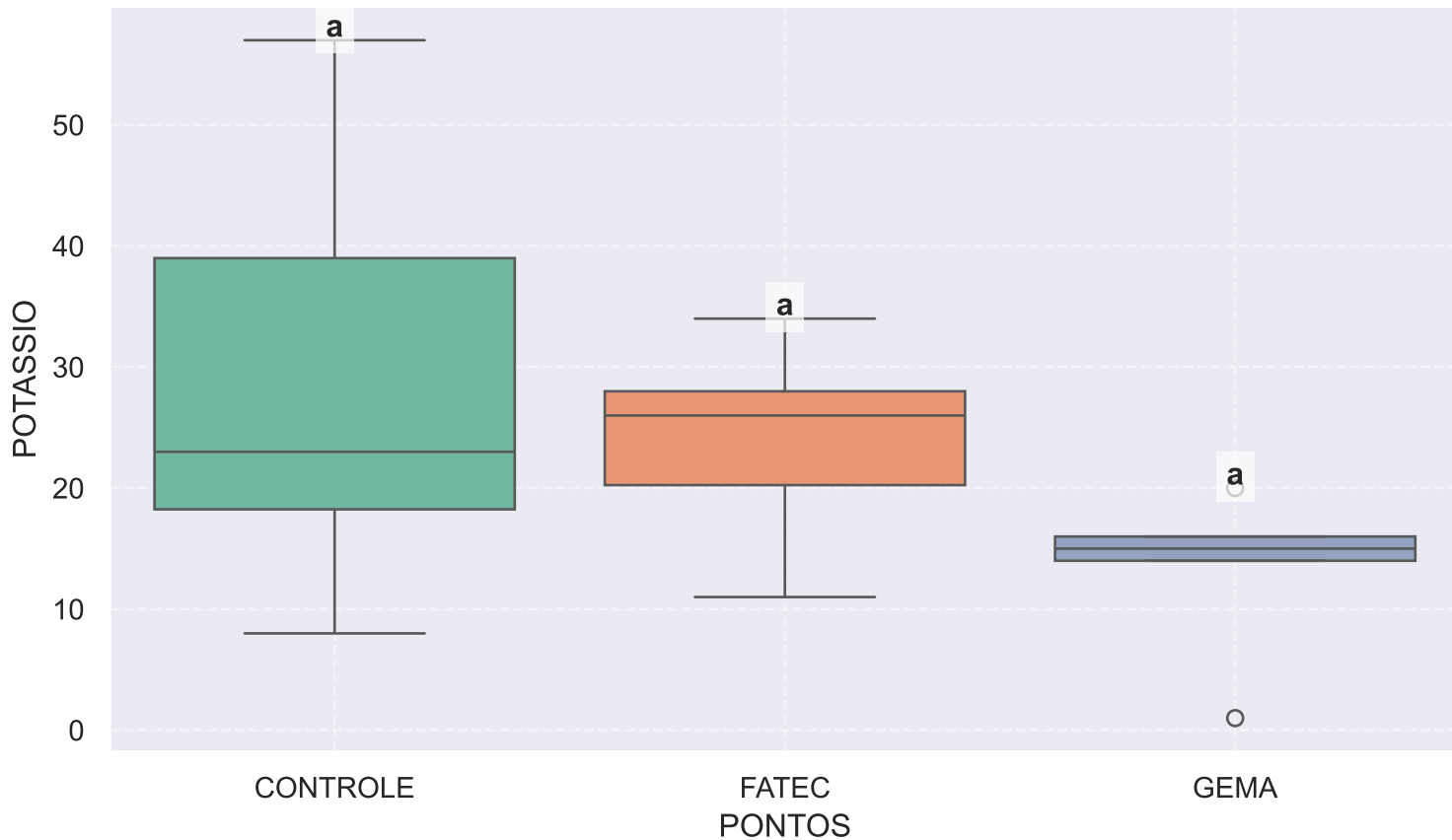
ALUMINIO por PONTOS — ANOVA/Kruskal + pós-hoc <sup>c</sup> <sup>d</sup>



SODIO por PONTOS — ANOVA/Kruskal + pós-hoc

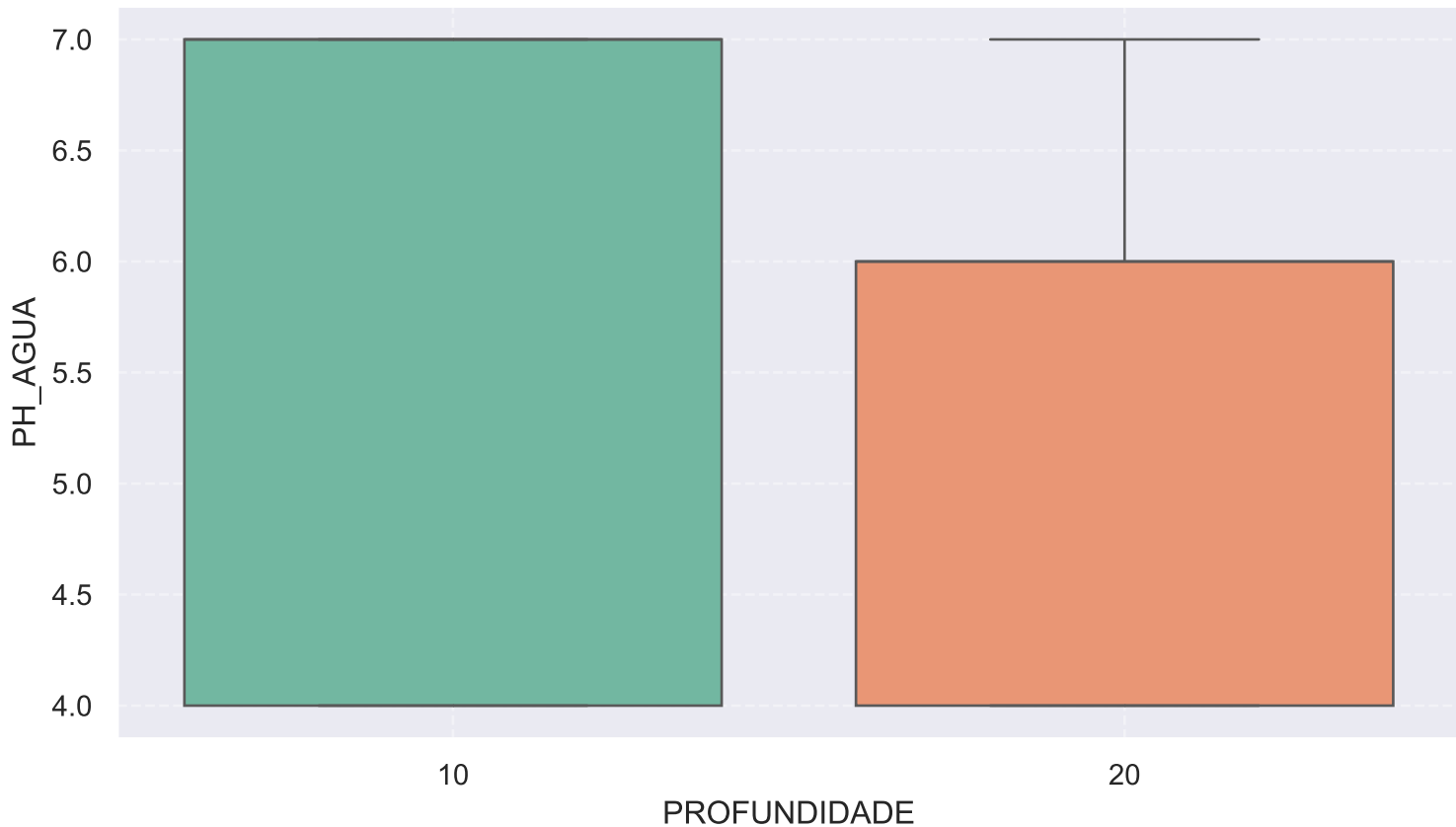


POTASSIO por PONTOS — ANOVA/Kruskal + pós-hoc

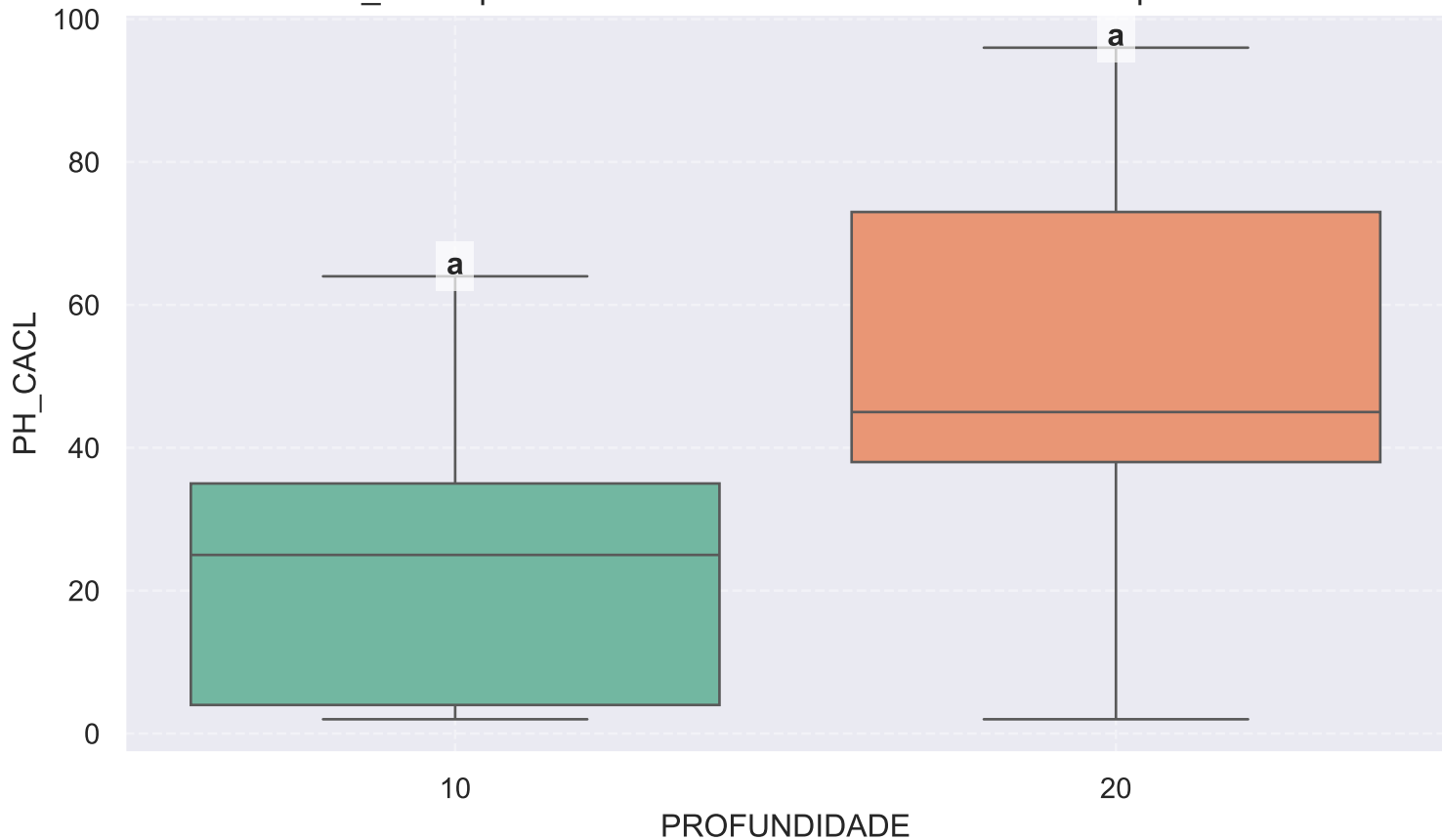




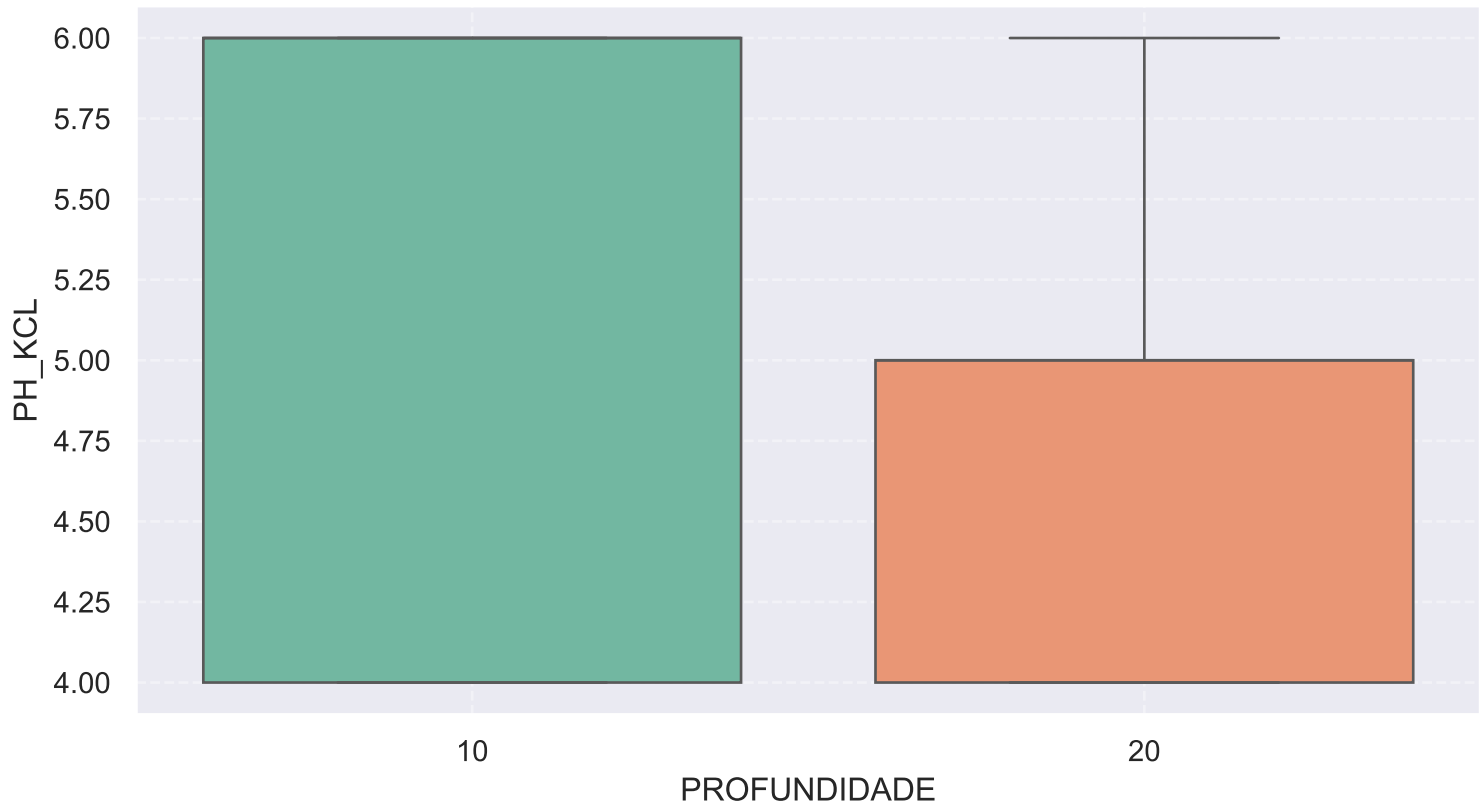
PH\_AGUA por PROFUNDIDADE — ANOVA/Kruskal + pós-hoc



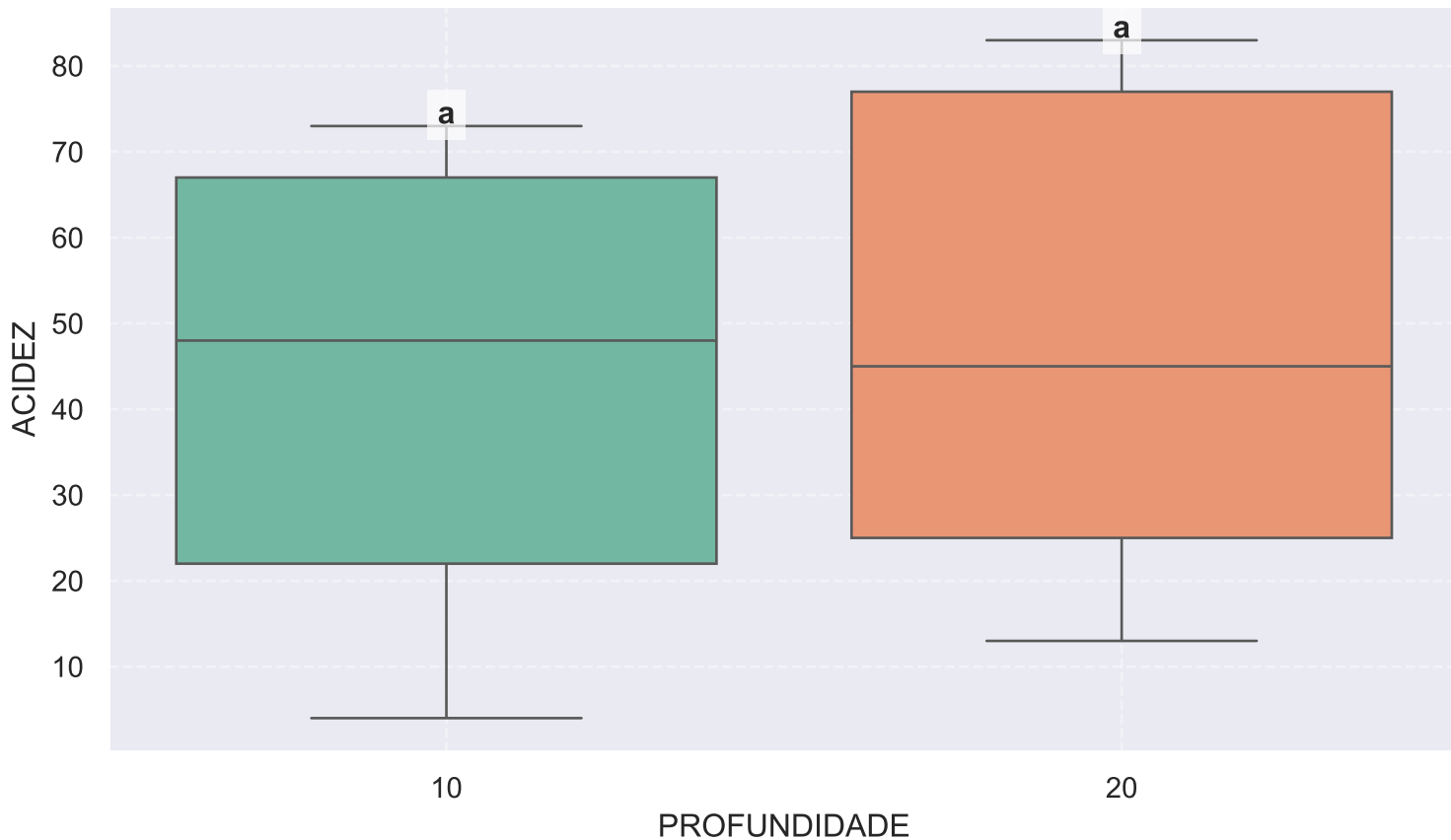
PH\_CACL por PROFUNDIDADE — ANOVA/Kruskal + pós-hoc



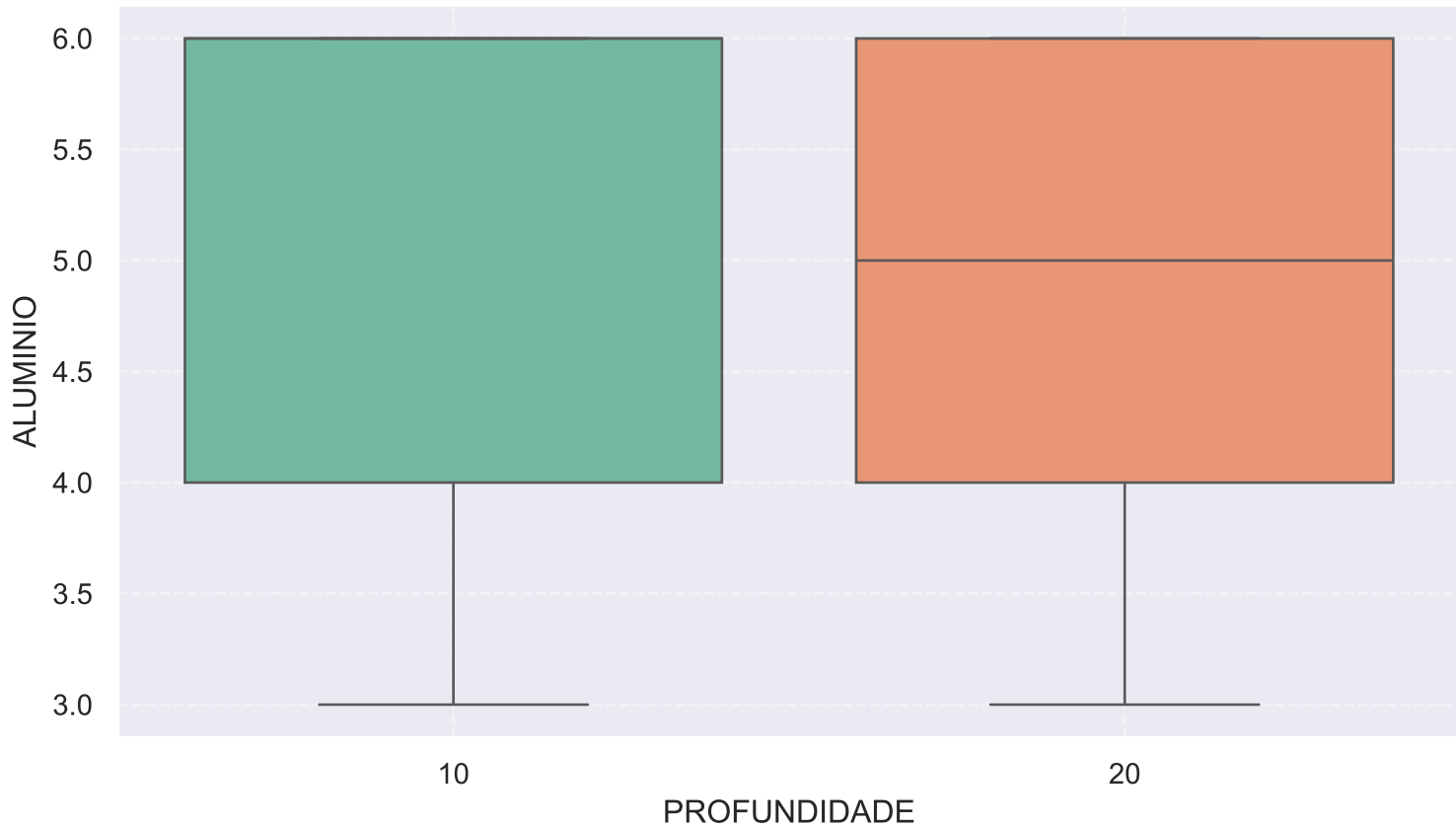
**a** **a**  
PH\_KCL por PROFUNDIDADE — ANOVA/Kruskal + pós-hoc



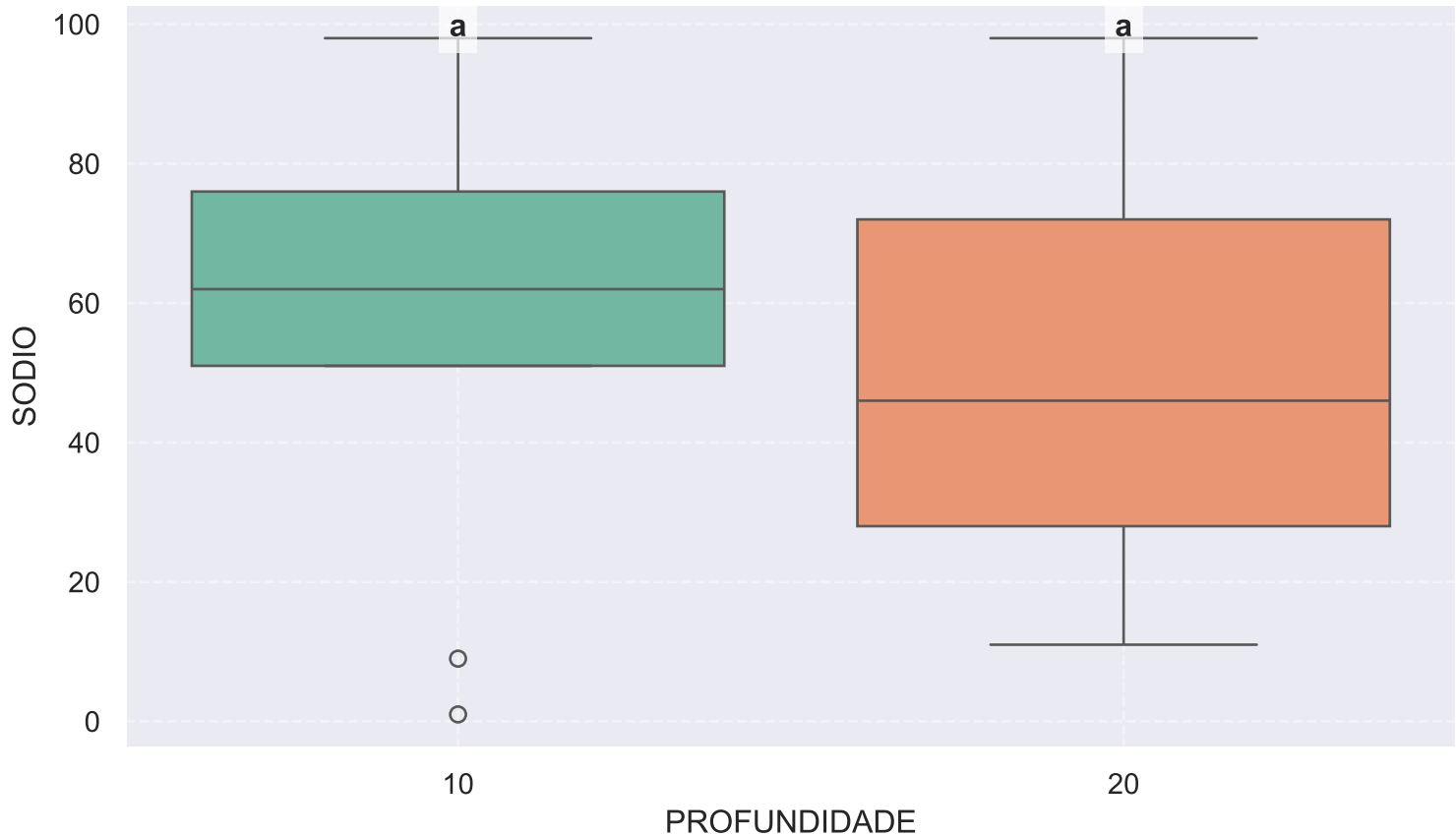
# ACIDEZ por PROFUNDIDADE — ANOVA/Kruskal + pós-hoc



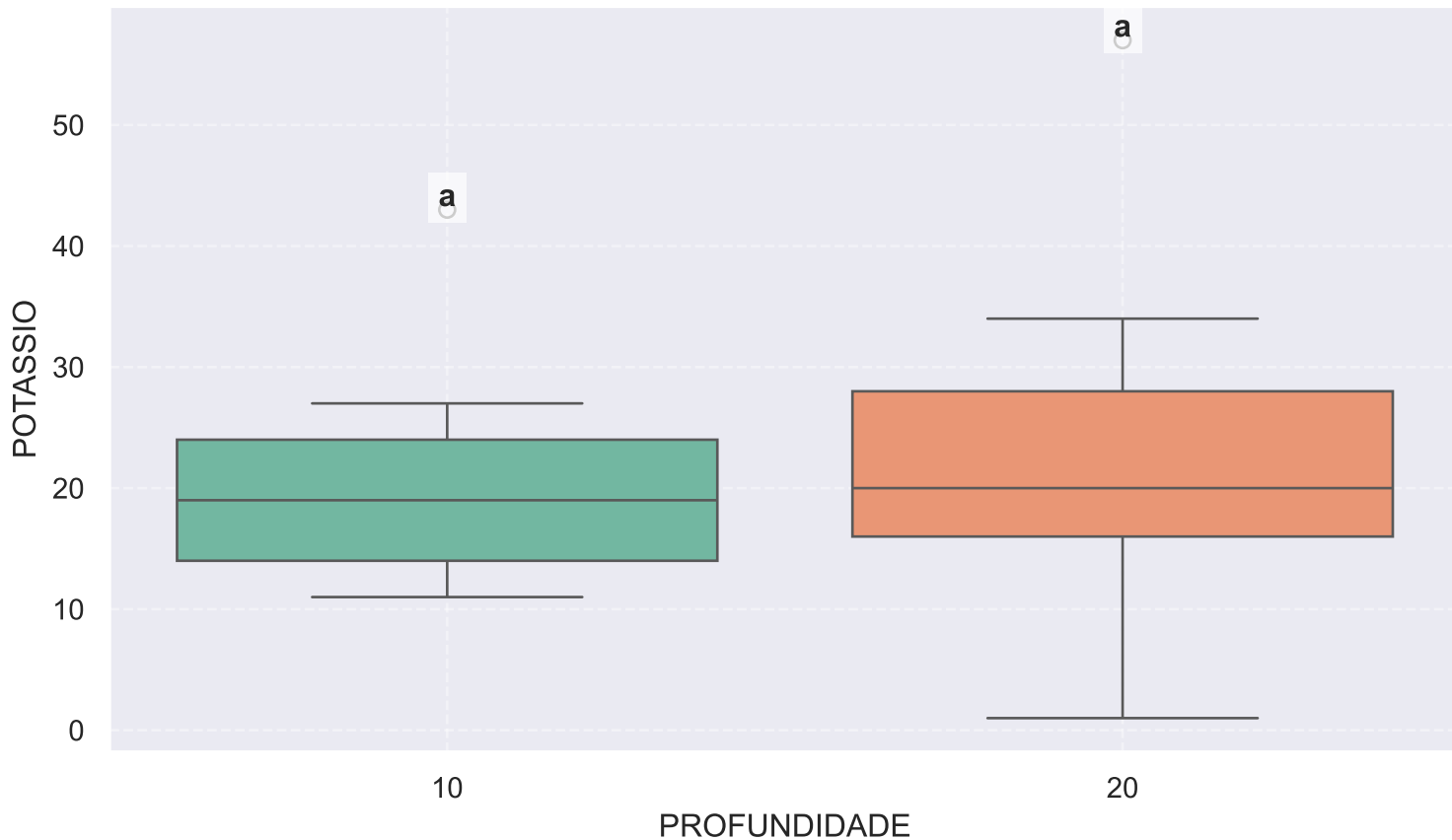
ALUMINIO por PROFUNDIDADE — ANOVA/Kruskal + pós-hoc



SODIO por PROFUNDIDADE — ANOVA/Kruskal + pós-hoc



POTASSIO por PROFUNDIDADE — ANOVA/Kruskal + pós-hoc



Resumo estatístico por grupo e profundidade

Variável	PROFUNDIDADE	mean	std	count	Letra
PH_AGUA	nan	4.0	0.0	6	a
PH_AGUA	nan	6.5	0.55	6	c
PH_AGUA	nan	6.67	0.52	6	d
PH_AGUA	10.0	6.0	1.5	9	a
PH_AGUA	20.0	5.44	1.13	9	a
PH_CACL	nan	60.83	22.03	6	a
PH_CACL	nan	19.83	19.58	6	b
PH_CACL	nan	30.67	35.06	6	c
PH_CACL	10.0	24.89	22.86	9	a
PH_CACL	20.0	49.33	33.61	9	a
PH_KCL	nan	4.0	0.0	6	a
PH_KCL	nan	5.5	0.55	6	c
PH_KCL	nan	5.83	0.41	6	d
PH_KCL	10.0	5.33	1.0	9	a
PH_KCL	20.0	4.89	0.78	9	a
ACIDEZ	nan	20.67	16.23	6	a
ACIDEZ	nan	64.0	20.34	6	c
ACIDEZ	nan	54.83	19.08	6	d
ACIDEZ	10.0	43.78	26.32	9	a
ACIDEZ	20.0	49.22	26.9	9	a
ALUMINIO	nan	3.5	0.55	6	a
ALUMINIO	nan	6.0	0.0	6	c
ALUMINIO	nan	5.5	0.55	6	d
ALUMINIO	10.0	5.11	1.36	9	a
ALUMINIO	20.0	4.89	1.05	9	a
SODIO	nan	55.5	44.41	6	a
SODIO	nan	46.5	24.21	6	a
SODIO	nan	60.17	19.81	6	a
SODIO	10.0	56.44	32.67	9	a
SODIO	20.0	51.67	28.92	9	a
POTASSIO	nan	28.67	18.14	6	a
POTASSIO	nan	24.0	8.07	6	a
POTASSIO	nan	13.5	6.5	6	a
POTASSIO	10.0	20.78	9.74	9	a
POTASSIO	20.0	23.33	16.27	9	a



Tabela descritiva completa

Variável	PROFUNDIDAD	mean	median	min	max	std	count
PH_AGUA	nan	4.0	4.0	4	4	0.0	6
PH_AGUA	nan	6.5	6.5	6	7	0.55	6
PH_AGUA	nan	6.67	7.0	6	7	0.52	6
PH_AGUA	10.0	6.0	7.0	4	7	1.5	9
PH_AGUA	20.0	5.44	6.0	4	7	1.13	9
PH_CACL	nan	60.83	59.0	35	96	22.03	6
PH_CACL	nan	19.83	16.0	2	45	19.58	6
PH_CACL	nan	30.67	17.0	3	93	35.06	6
PH_CACL	10.0	24.89	25.0	2	64	22.86	9
PH_CACL	20.0	49.33	45.0	2	96	33.61	9
PH_KCL	nan	4.0	4.0	4	4	0.0	6
PH_KCL	nan	5.5	5.5	5	6	0.55	6
PH_KCL	nan	5.83	6.0	5	6	0.41	6
PH_KCL	10.0	5.33	6.0	4	6	1.0	9
PH_KCL	20.0	4.89	5.0	4	6	0.78	9
ACIDEZ	nan	20.67	17.0	4	51	16.23	6
ACIDEZ	nan	64.0	69.5	34	83	20.34	6
ACIDEZ	nan	54.83	57.5	25	77	19.08	6
ACIDEZ	10.0	43.78	48.0	4	73	26.32	9
ACIDEZ	20.0	49.22	45.0	13	83	26.9	9
ALUMINIO	nan	3.5	3.5	3	4	0.55	6
ALUMINIO	nan	6.0	6.0	6	6	0.0	6
ALUMINIO	nan	5.5	5.5	5	6	0.55	6
ALUMINIO	10.0	5.11	6.0	3	6	1.36	9
ALUMINIO	20.0	4.89	5.0	3	6	1.05	9
SODIO	nan	55.5	62.5	1	98	44.41	6
SODIO	nan	46.5	51.5	9	72	24.21	6
SODIO	nan	60.17	63.5	26	81	19.81	6
SODIO	10.0	56.44	62.0	1	98	32.67	9
SODIO	20.0	51.67	46.0	11	98	28.92	9
POTASSIO	nan	28.67	23.0	8	57	18.14	6
POTASSIO	nan	24.0	26.0	11	34	8.07	6
POTASSIO	nan	13.5	15.0	1	20	6.5	6
POTASSIO	10.0	20.78	19.0	11	43	9.74	9
POTASSIO	20.0	23.33	20.0	1	57	16.27	9