

Table S1. Box-Behnken design matrix with the values of the six variables for each experiment and measured and predicted responses ($n = 2$).

Experiment	% MeOH	Temperature (°C)	Pressure (atm)	Purge time (s)	pH	Flushing	mg anthocyanins measured /g Açaí	mg anthocyanins predicted /g Açaí	Relative error of prediction (%)	mg tot.al phenolics measured /g Açaí	mg total phenolics predicted /g Açaí	Relative error of prediction (%)
X ₁	50	75	100	60	2	50	6.20	6.39	3.06	11.75	11.37	3.27
X ₂	50	75	200	60	2	50	5.48	5.23	4.56	11.52	11.25	2.40
X ₃	50	75	100	60	7	50	6.68	6.52	2.39	12.35	12.43	0.63
X ₄	50	75	200	60	7	50	5.42	5.82	7.38	12.03	11.64	3.33
X ₅	50	75	100	60	2	150	7.18	7.51	4.60	12.10	12.67	4.71
X ₆	50	75	200	60	2	150	3.10	3.06	3.46	12.58	12.00	4.68
X ₇	50	75	100	60	7	150	4.03	4.14	2.73	11.96	12.63	5.60
X ₈	50	75	200	60	7	150	5.40	5.15	4.76	11.42	11.30	1.05
X ₉	50	50	150	30	2	100	4.40	4.66	5.90	9.58	9.01	6.13
X ₁₀	50	100	150	30	2	100	5.25	5.01	4.68	11.43	11.59	1.33
X ₁₁	50	50	150	90	2	100	5.05	4.73	6.26	11.00	10.95	0.45
X ₁₂	50	100	150	90	2	100	5.05	4.99	1.12	12.59	12.85	2.06
X ₁₃	50	50	150	30	7	100	5.22	5.48	4.99	10.55	10.41	1.32
X ₁₄	50	100	150	30	7	100	5.95	6.04	1.60	11.66	12.54	7.30
X ₁₅	50	50	150	90	7	100	5.02	5.46	8.59	10.39	10.35	0.38
X ₁₆	50	100	150	90	7	100	5.43	5.94	9.17	11.35	11.81	3.94
X ₁₇	25	75	100	30	4.5	100	5.20	5.22	0.54	11.57	11.72	1.27
X ₁₈	75	75	100	30	4.5	100	3.34	3.28	1.79	11.42	11.28	1.20
X ₁₉	25	75	200	30	4.5	100	5.05	4.72	6.65	9.20	9.75	5.78
X ₂₀	75	75	200	30	4.5	100	2.71	2.99	9.95	9.52	10.29	7.84
X ₂₁	25	75	100	90	4.5	100	5.36	5.20	2.99	11.74	11.08	5.70
X ₂₂	75	75	100	90	4.5	100	3.07	3.26	6.29	12.30	11.62	5.64
X ₂₃	25	75	200	90	4.5	100	5.15	4.72	8.58	10.36	10.62	2.50
X ₂₄	75	75	200	90	4.5	100	3.15	2.99	5.02	12.41	12.14	2.23

X ₂₅	50	50	100	60	4.5	50	6.17	6.18	0.16	10.38	11.17	7.38
X ₂₆	50	100	100	60	4.5	50	6.35	6.17	2.82	13.01	12.52	3.82
X ₂₇	50	50	200	60	4.5	50	5.03	5.57	10.35	10.69	10.11	5.64
X ₂₈	50	100	200	60	4.5	50	5.90	5.85	0.85	12.72	12.67	0.41
X ₂₉	50	50	100	60	4.5	150	5.00	4.54	9.20	12.30	11.86	3.69
X ₃₀	50	100	100	60	4.5	150	5.68	5.09	10.89	13.24	13.33	0.67
X ₃₁	50	50	200	60	4.5	150	3.93	4.10	4.38	10.72	10.26	4.29
X ₃₂	50	100	200	60	4.5	150	4.94	4.92	0.41	13.24	12.94	2.28
X ₃₃	25	50	150	60	2	100	5.39	5.36	0.56	9.14	9.70	5.96
X ₃₄	75	50	150	60	2	100	5.67	5.64	13.48	9.80	9.60	2.04
X ₃₅	25	100	150	60	2	100	5.55	5.49	1.08	11.90	11.23	5.83
X ₃₆	75	100	150	60	2	100	6.14	6.11	3.38	12.74	12.54	1.56
X ₃₇	25	50	150	60	7	100	3.65	3.84	5.20	10.08	10.16	0.82
X ₃₈	75	50	150	60	7	100	2.91	2.73	11.00	9.37	9.93	5.80
X ₃₉	25	100	150	60	7	100	4.51	4.20	7.09	11.93	11.25	5.92
X ₄₀	75	100	150	60	7	100	3.20	3.10	3.30	12.88	12.43	3.54
X ₄₁	25	75	150	30	4.5	50	5.14	5.73	10.90	9.73	10.22	4.93
X ₄₂	75	75	150	30	4.5	50	3.94	3.90	1.05	11.79	11.61	1.48
X ₄₃	25	75	150	90	4.5	50	5.80	5.62	3.10	9.73	10.09	3.63
X ₄₄	75	75	150	90	4.5	50	3.75	3.79	1.06	11.83	12.45	5.08
X ₄₅	25	75	150	30	4.5	150	4.06	4.36	7.38	12.27	11.78	4.08
X ₄₆	75	75	150	30	4.5	150	2.45	2.53	3.27	10.99	10.51	4.52
X ₄₇	25	75	150	90	4.5	150	4.13	4.44	7.50	12.11	12.16	0.38
X ₄₈	75	75	150	90	4.5	150	2.42	2.61	7.85	12.22	11.85	3.04
X ₄₉	50	75	150	60	4.5	100	5.31	5.21	1.98	11.85	11.69	1.33
X ₅₀	50	75	150	60	4.5	50	6.08	6.17	1.48	11.59	11.69	0.93
X ₅₁	50	75	150	60	4.5	50	6.18	6.17	0.16	11.71	11.69	0.10
X ₅₂	50	75	150	60	4.5	50	6.26	6.17	1.43	12.18	11.69	4.09
X ₅₃	50	75	150	60	4.5	50	6.15	6.17	0.33	11.49	11.69	1.79
X ₅₄	50	75	150	60	4.5	50	6.27	6.17	1.59	11.35	11.69	2.95
