Supplementary material

Table S1. Content of anthocyanins in *E. brasilisiensis* fruit peel extracts obtained under the CCRD used for heat-assisted extraction (HAE) and ultrasound-assisted extraction (UAE) optimization.

Run	Heat-assisted extraction				Ultrasound-assisted extraction			
	Compound 1	**Compound 2**	**Compound 3**	**Compound 4**	**Compound 1**	**Compound 2**	**Compound 3**	**Compound 4**
1	13.1±0.9	119±1	5.07±0.03	2.00±0.05	7.31±0.03	63±2	3.24±0.02	1.54±0.03
2	15.1±0.7	147±1	5.52±0.09	2.049±0.004	3.14±0.07	45.2±0.2	1.433±0.003	0.859±0.001
3	30.9±0.4	114±4	5.86±0.05	2.54±0.08	20.7±0.7	157±7	4.8±0.1	2.774±0.002
4	6.2±0.6	51±5	1.0±0.1	1.058±0.004	18±1	207.65±0.08	2.0±0.1	2.131±0.001
5	27.8±0.5	183±5	6.0±0.1	2.1±0.1	19.1±0.5	161±2	6.6±0.3	2.46±0.04
6	53.0±0.7	230±9	12.5±0.2	2.64±0.02	21.7±0.5	158±3	6.7±0.2	3.19±0.05
7	41±2	234±3	8.07±0.03	3.15±0.07	30±1	191±4	6.3±0.1	1.80±0.09
8	52.0±0.9	123±1	4.09±0.04	1.98±0.07	25.6±0.3	184±21	4.5±0.1	2.11±0.02
9	28.95±0.09	175±1	5.7±0.1	2.7±0.1	23±2	201±15	7.1±0.2	2.7±0.2
10	32.1±0.8	194±1	6.6±0.02	3.9±0.1	23±1	191±2	6.10±0.07	2.20±0.08
11	23.85±0.06	159±1	5.2±0.1	1.98±0.01	13.7±0.3	116±2	4.7±0.3	2.00±0.03
12	23.03±0.1	148±1	5.00±0.03	2.91±0.03	23.8±0.3	195±1	5.7±0.1	2.50±0.05
13	2.79±0.01	66.3±0.3	2.31±0.05	1.51±0.01	4.06±0.09	68.1±0.1	2.60±0.02	1.23±0.03
14	16.8±0.2	163±1	5.2±0.1	1.24±0.01	9.9±0.4	81±2	4.60±0.02	2.06±0.05
15	28.07±0.01	168±1	5.77±0.01	3.08±0.09	32±1	221±6	7.78±0.05	3.1±0.1
16	23.6±0.4	158±4	5.29±0.02	2.99±0.03	27.5±0.6	191±1	6.07±0.03	2.33±0.04
17	35.1±0.5	180±6	5.9±0.1	3.7±0.1	28.9±0.9	216±4	3.47±0.06	2.98±0.07
18	41.3±0.9	170±6	8.4±0.2	4.45±0.1	28.0±0.8	196±10	6.41±0.07	2.478±0.006
19	25.9±0.1	180±2	5.77±0.05	3.035±0.05	27.0±0.1	194±3	6.236±0.002	2.15±0.08
20	14.2±0.2	184±9	3.23±0.02	0.672±0.001	25±3	191±13	6.7±0.1	2.1±0.2
Optimum point	25±2	228±1	12.3±0.2	2.4±0.2	23.5±0.2	198±2	6.2±0.4	0.74±0.01

The results are expressed as mg/g of extract ±standard deviation. Compound 1: delphinidin-3-*O*-glucoside. Compound 2: cyanidin-3-*O*-galactoside. Compound 3: cyanidin-3-*O*-glucoside. Compound 4: cyanidin-3-*O*-arabinoside.

Table S2. Content of anthocyanins in *E. involucrata* fruit peel extracts obtained under the CCRD used for heat-assisted extraction (HAE) and ultrasound-assisted extraction (UAE) optimization.

Run	Heat-assisted extraction					Ultrasound-assisted extraction				
	Compound 1	**Compound 2**	**Compound 3**	**Compound 4**	**Compound 5**	**Compound 1**	**Compound 2**	**Compound 3**	**Compound 4**	**Compound 5**
1	3.4±0.1	12.5±0.2	0.649±0.001	0.656±0.001	0.402±0.009	0.349±0.005	5.2±0.6	0.243±0.003	0.143±0.003	0.207±0.002
2	1.13±0.01	10.0±0.4	0.47±0.02	0.477±0.01	0.20±0.02	0.262±0.004	4.2±0.3	0.154±0.003	0.149±0.003	0.119±0.008
3	2.87±0.2	14.2±0.2	0.900±0.005	1.289±0.02	1.01±0.06	0.73±0.05	11.2±0.2	0.155±0.002	0.126±0.002	0.068±0.002
4	1.07±0.01	7.1±0.2	0.228±0.008	0.246±0.003	0.157±0.008	0.37±0.01	5.3±0.4	0.112±0.003	0.0993±0.0003	0.059±0.002
5	0.32±0.01	2.6±0.1	0.33±0.01	0.321±0.01	0.62±0.02	0.07±0.002	0.60±0.02	0.114±0.004	0.110±0.005	0.205±0.006
6	0.42±0.01	1.677±0.01	0.290±0.007	0.295±0.007	0.54±0.02	0.097±0.004	0.70±0.05	0.129±0.008	0.130±0.001	0.265±0.002
7	0.51±0.01	2.18±0.04	0.367±0.002	0.405±0.007	0.70±0.02	0.105±0.002	5.52±0.04	0.145±0.004	0.133±0.004	0.278±0.007
8	0.403±0.004	1.333±0.001	0.31±0.02	0.50±0.04	0.46±0.03	0.29±0.04	2.49±0.07	0.256±0.004	0.263±0.002	0.33±0.03
9	3.35±0.07	20±1	0.457±0.004	1.32±0.05	1.9±0.1	0.77±0.01	13.7±0.1	0.427±0.009	0.56±0.02	1.85±0.08
10	3.2±0.1	11.1±0.3	0.73±0.01	1.020±0.003	1.21±0.05	0.38±0.01	9.4±0.2	0.185±0.003	0.231±0.002	0.56±0.03
11	2.8±0.1	13.4±0.8	0.68±0.02	0.76±0.03	1.06±0.07	0.55±0.02	7.4±0.8	0.222±0.001	0.345±0.004	0.44±0.01
12	2.1±0.2	10±1	0.60±0.01	0.77±0.06	1.34±0.08	1.33±0.02	16.0±0.7	0.578±0.003	0.71±0.01	0.522±0.005
13	0.054±0.001	0.041±0.001	0.058±0.001	0.0465±0.0002	0.034±0.001	0.0181±0.0001	0.073±0.005	0.0200±0.0001	0.0190±0.0002	0.0168±0.0001
14	6.34±0.2	19.3±0.3	0.84±0.01	0.754±0.006	0.21±0.01	1.9±0.1	1.7±0.3	0.135±0.001	0.1189±0.0005	0.0766±0.0006
15	3.02±0.04	18.4±0.4	1.02±0.04	1.35±0.08	1.54±0.03	1.118±0.009	15±3	0.65±0.003	0.650±0.003	3.3±0.2
16	3.47±0.2	18.4±0.9	0.99±0.02	1.31±0.04	1.59±0.07	1.18±0.02	12.9±0.8	0.65±0.01	0.725±0.005	2.4±0.1
17	3.34±0.02	16.7±0.8	0.90±0.02	1.30±0.04	1.72±0.04	0.86±0.03	14.8±0.7	0.386±0.009	0.833±0.001	0.909±0.007
18	3.34±0.05	17.1±0.6	0.92±0.05	1.16±0.01	1.51±0.05	1.07±0.006	12.9±0.1	0.685±0.004	0.65±0.02	3.03±0.02
19	3.37±0.02	16±1	0.96±0.03	1.17±0.03	1.65±0.02	1.14±0.004	10.3±0.8	0.64±0.01	0.753±0.007	3.21±0.04
20	3.21±0.01	17±1	0.97±0.03	1.3±0.1	1.665±0.004	0.73±0.01	12.8±0.8	0.38±0.01	0.4113±0.0001	0.37±0.02
Optimum point	1.81±0.06	14.7±0.8	0.99±0.02	1.04±0.04	1.56±0.04	1.2±0.1	12.5±0.3	0.45±0.02	1.133±0.002	1.251±0.008

The results are expressed as mg/g of extract ±standard deviation. Compound 1: delphinidin-3-*O*-glucoside. Compound 2: cyanidin-3-*O*-galactoside. Compound 3: delphinidin-3-*O*-galactoside. Compound 4: cyanidin-3-*O*-glucoside. Compound 5: cyanidin-3-*O*-arabinoside.