

Table 3. Factorial design for the plant organ, light availability, plant density and plant pattern factors and the caffeine, chlorogenic acids, reducing sugars and lipid concentrations ($\mu\text{g mL}^{-1}$) and ash percentages..

Factors					+				
1. Plant pattern	Square				Rectangle				
2. Plant density	6000				10000				
3. Light availability	sunny				shadowy				
4. Plant organ	bean				leaf				
Factorial Experiment	Factor level				Caffeine	Chlorogenic acids	Reducing sugars	Ashes	Lipids
	1	2	3	4					
1	-	-	-	-	0.8090	0.1666	0.2425	3.6708	15.9610
2	-	-	-	-	0.6630	0.1236	0.2437	3.6660	15.1747
3	-	-	-	-	0.6509	0.1390	0.2215	3.5260	15.3574
4	+	-	-	-	0.8432	0.1083	0.2980	3.9928	13.8667
5	+	-	-	-	0.6613	0.1169	0.2776	3.7563	14.1094
6	+	-	-	-	0.8189	0.1182	0.2733	3.9916	13.8165
7	-	+	-	-	1.3341	0.206	0.3831	3.5685	15.0237
8	-	+	-	-	1.4432	0.3211	0.4171	3.7731	15.3567
9	-	+	-	-	1.3167	0.2443	0.4035	3.8414	15.6743
10	+	+	-	-	0.9289	0.2202	0.2684	4.0822	12.3267
11	+	+	-	-	0.9813	0.1571	0.2604	5.4811	12.7272
12	+	+	-	-	0.6285	0.1319	0.2955	4.0399	12.6684
13	-	-	+	-	1.4291	0.3888	0.2388	3.9459	11.5431
14	-	-	+	-	1.5281	0.3629	0.2530	3.7879	11.1526
15	-	-	+	-	0.923	0.2388	0.2412	3.8764	11.4512
16	+	-	+	-	1.0901	0.1538	0.4226	4.2374	11.4302
17	+	-	+	-	0.9791	0.2179	0.3973	4.1464	11.0373
18	+	-	+	-	0.5752	0.1108	0.3332	4.2046	10.5942
19	-	+	+	-	2.0243	0.3748	0.2108	2.6582	14.7171
20	-	+	+	-	1.9222	0.3025	0.2256	3.9335	15.0938
21	-	+	+	-	2.0449	0.289	0.1418	3.9156	15.1525
22	+	+	+	-	1.1904	0.0918	0.1092	5.6181	14.4902
23	+	+	+	-	1.4536	0.1117	0.1271	4.3532	15.1746
24	+	+	+	-	0.9855	0.0763	0.1296	4.4937	15.1002
25	-	-	-	+	0.4146	nd	0.1934	7.8613	1.3360
26	-	-	-	+	0.3398	nd	0.1968	7.7420	1.0493
27	-	-	-	+	0.3336	nd	0.2056	7.7925	1.0715
28	+	-	-	+	0.4321	nd	0.2404	8.1784	1.4496
29	+	-	-	+	0.3389	nd	0.2285	8.0563	1.4496
30	+	-	-	+	0.4197	nd	0.3322	8.0543	1.6078
31	-	+	-	+	0.3505	nd	0.5717	7.5000	1.5406
32	-	+	-	+	0.3198	nd	0.5604	7.415	1.4512
33	-	+	-	+	0.3581	nd	0.5436	7.4826	1.7245
34	+	+	-	+	0.6101	nd	0.4433	7.9804	1.3058
35	+	+	-	+	0.7450	nd	0.428	8.0312	1.1081
36	+	+	-	+	0.5051	nd	0.6065	8.0898	1.2939
37	-	-	+	+	0.7324	nd	0.1278	7.5804	0.8824
38	-	-	+	+	0.7831	nd	0.1592	7.6363	1.5264
39	-	-	+	+	0.4730	nd	0.1828	7.5888	1.2869
40	+	-	+	+	0.5587	nd	0.4198	8.7146	2.0646
41	+	-	+	+	0.5018	nd	0.3866	8.5508	2.3422

42	+	-	+	+	0.2948	nd	0.3586	8.6365	2.2529
43	-	+	+	+	1.0375	nd	0.5670	7.9672	2.7489
44	-	+	+	+	0.9851	nd	0.5548	7.9889	2.9466
45	-	+	+	+	1.0480	nd	0.5753	8.0801	2.7652
46	+	+	+	+	0.4760	nd	0.3592	8.3714	2.3875
47	+	+	+	+	0.5029	nd	0.3466	8.2686	3.3359
48	+	+	+	+	0.3221	nd	0.4180	8.3697	2.2591
