J. Braz. Chem. Soc., Vol. 27, No. 4, S1-S26, 2016.
Printed in Brazil - ©2016 Sociedade Brasileira de Química
0103 - 5053 $6.00+0.00

Supplementary Information

Chemical Profiling of Street Cocaine from Different Brazilian Regions

Adriano O. Maldaner,*[,a] Élvio D. Botelho,[a] Jorge J. Zacca,[a] Raimundo C. A. Melo,[b] José L. Costa,[c] Ivomar Zancanaro,[d] Celinalva S. L. Oliveira,[e] Leonardo B. Kasakoff[f] and Thiago R. L. C. Paixão[g]

[a]*Instituto Nacional de Criminalística, Polícia Federal (INC/DPF), SAIS Quadra 07 Lote 23, 70610-200 Brasília-DF, Brazil*

[b]*Instituto de Criminalística, Polícia Civil do Distrito Federal (IC/PCDF), 71966-700 Brasília-DF, Brazil*

[c]*Instituto de Criminalística, Superintendência da Polícia Ténico-Científica de São Paulo (IC/SPTC/SP), 05507-060 São Paulo-SP, Brazil*

[d]*Superintendência da Polícia Ténico-Científica de Goiás (SPTC/GO), 74425-030 Goiânia-GO, Brazil*

[e]*Laboratório Central de Polícia Técnica, Departamento de Polícia Técnica do Estado da Bahia (DPT/BA), 40100-180 Salvador-BA, Brazil*

[f]*Péricia Oficial e Identificação Técnica (POLITEC), 78850-000 Primavera do Leste-MT, Brazil*

[g]*Instituto de Química, Universidade de São Paulo (IQ/USP), 05508-000 São Paulo-SP, Brazil*

Figure S1. Brazilian territory and the localization of the studied States.

*e-mail: adriano.aom@dpf.gov.br

Table S1. Analytical figures of merit of method validation

Parameter	Cocaine	*trans*-Cinnamoyl-cocaine	Benzocaine	Phenacetin	Caffeine	Lidocaine	Aminopyrine	Levamisole	Procaine	Hydroxyzine	Diltiazem
Linear range / (mg L^{-1})	15-1455	2-202	14-1398	14-1392	14-1409	14-1366	14-1399	14-1400	14-1394	14-1436	14-1386
Working range / (mg L^{-1})	15-1250	2-202	14-1250	14-1250	14-1250	14-1250	14-1250	14-1250	14-1250	14-1250	14-1250
Regression equation y = ax + b	a = 0.86190 b = 0.00158	a = 0.86500 b = −0.00156	a = 0.84940 b = −0.00881	a = 0.83010 b = −0.00955	a = 0.46030 b = −0.00466	a = 0.99930 b = −0.00981	a = 0.70261 b = −0.00692	a = 0.91670 b = −0.00978	a = 0.87060 b = −0.00834	a = 0.78926 b = −0.02026	a = 0.79190 b = −0.01160
Correlation coefficient (r^2)	0.9999	0.9999	0.9998	0.9998	0.9998	0.9998	0.9999	0.9998	0.9998	0.9996	0.9998
LOD / (mg L^{-1})	5.7	2.7	8.1	8.9	10.8	27.5	27.7	8.8	9.1	23.1	13.4
LOQ / (mg L^{-1})	1.7	0.8	2.4	2.7	3.2	8.3	8.3	2.6	2.7	6.9	4.0
Precision / %RSD	< 1.96	< 3.00	< 3.30	< 2.24	< 0.93	< 0.75	< 3.68	< 1.57	< 4.55	< 5.06	< 5.11
Accuracy / %	101.3	100.7	104.0	99.7	98.7	102.6	105.8	99.9	99.5	91.8	105.5

LOD: limit of detection; LOQ: limit of quantitation; RSD: relative standard deviation.

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
1	Base	SP	2012	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	82.5	4.0	2.7	8.1	low
2	Base	SP	2012	0.0	1.7	0.0	0.0	4.2	0.0	0.0	0.0	0.0	79.8	2.9	1.7	5.7	moderate
3	n.d.	SP	2012	0.0	4.4	17.9	0.0	0.0	0.0	0.0	0.0	0.0	19.3	0.9	0.8	9.0	low
4	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.4	6.5	6.3	16.2	low
5	Base	SP	2012	0.0	37.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.1	3.6	4.2	16.0	low
6	n.d.	SP	2012	0.0	0.0	28.5	0.0	2.9	0.0	0.0	0.0	0.0	12.8	0.8	0.6	11.3	low
7	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.1	3.7	3.5	9.0	low
8	HCl	SP	2012	0.0	1.6	13.5	0.0	0.0	0.0	0.0	0.0	0.0	56.7	3.0	2.6	10.0	low
9	Base	SP	2012	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.0	5.5	4.7	13.3	low
10	n.d.	SP	2012	0.0	0.0	31.4	0.0	3.2	0.0	0.0	0.0	0.0	14.3	0.9	0.7	11.0	low
11	HCl	SP	2012	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.4	0.3	n.d.	n.d.
12	n.d.	SP	2012	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	20.6	1.4	1.2	12.5	low
13	Base	SP	2012	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.8	4.7	3.4	9.9	low
14	HCl	SP	2012	0.0	0.0	28.7	0.0	0.0	0.0	0.0	0.0	0.0	16.6	1.1	0.9	12.0	low
15	Base	SP	2012	0.0	1.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.5	0.4	n.d.	n.d.
16	Base	SP	2012	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.8	5.2	5.9	17.4	low
17	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.4	1.9	1.5	4.5	moderate
18	HCl	SP	2012	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.4	0.4	n.d.	n.d.
19	Base	SP	2012	0.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.3	4.9	5.3	16.0	low
20	HCl	SP	2012	0.0	1.1	7.0	0.0	31.3	0.0	0.0	0.0	0.0	29.3	1.5	1.4	9.9	low
21	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.3	1.2	1.0	2.3	moderate
22	HCl	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.1	1.1	0.6	2.0	moderate
23	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.1	2.5	2.3	6.3	low
24	Base	SP	2011	0.0	18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.6	4.9	3.9	13.1	low
25	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.2	2.1	1.5	6.3	low
26	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.9	5.0	3.5	10.0	low
27	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.5	5.6	5.6	13.8	low
28	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.1	5.5	5.6	14.0	low
29	Base	SP	2011	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	79.7	3.1	3.0	7.6	low
30	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.4	5.2	4.2	12.2	low
31	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.1	3.7	3.0	10.5	low
32	Base	SP	2012	0.0	1.0	1.1	0.0	10.1	0.0	0.0	0.0	0.0	59.2	1.7	1.2	4.9	moderate
33	Base	SP	2012	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2	3.4	2.2	12.5	low
34	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.4	7.7	8.3	19.9	low
35	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.7	7.4	8.2	19.1	low
36	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.1	7.2	8.0	18.8	low
37	Base	SP	2012	0.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.2	4.0	2.5	9.1	low
38	Base	SP	2012	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.9	4.6	4.6	12.1	low

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
39	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.5	5.5	7.6	16.2	low
40	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.1	5.3	3.2	10.4	low
41	n.d.	SP	2012	0.0	0.0	11.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
42	Base	SP	2012	0.0	0.0	14.5	0.0	1.9	0.0	0.0	0.0	0.0	50.2	2.3	1.5	7.7	low
43	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.7	0.0	0.0	0.0	high
44	Base	SP	2012	0.0	26.5	0.0	0.0	1.6	0.0	0.0	0.0	0.0	60.9	2.5	1.3	6.2	low
45	Base	SP	2012	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.2	5.7	4.8	13.3	low
46	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.8	4.4	7.7	15.9	low
47	Base	SP	2012	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.4	4.7	3.3	10.8	low
48	Base	SP	2012	0.0	0.7	0.0	0.0	3.0	0.0	0.0	0.0	0.0	82.8	4.3	2.7	8.5	low
49	Base	SP	2012	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	84.3	4.2	2.7	8.2	low
50	Base	SP	2012	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.1	3.4	2.4	9.2	low
51	Base	SP	2012	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	7.1	0.6	0.7	n.d.	n.d.
52	Base	SP	2012	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.2	5.9	5.1	14.1	low
53	Base	SP	2012	0.0	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	85.3	4.2	4.1	9.6	low
54	Base	SP	2012	0.0	1.9	0.0	0.0	5.1	0.0	0.0	0.0	0.0	76.7	3.7	2.3	7.8	low
55	Base	SP	2012	0.0	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.3	3.7	2.9	12.0	low
56	Base	SP	2012	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	73.5	4.3	3.1	10.1	low
57	Base	SP	2012	0.0	2.8	0.0	1.2	2.8	0.0	0.0	0.0	0.0	47.5	1.9	1.3	6.8	low
58	Base	SP	2012	0.0	5.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	73.5	5.1	3.8	12.2	low
59	Base	SP	2012	0.0	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.4	2.7	2.2	7.4	low
60	Base	SP	2012	0.0	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.3	4.3	5.2	17.2	low
61	Base	SP	2012	0.0	36.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.9	2.8	2.7	10.8	low
62	Base	SP	2012	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.6	5.3	3.9	11.6	low
63	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.1	6.7	4.9	14.0	low
64	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.9	6.1	4.1	12.5	low
65	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.6	5.1	3.1	9.7	low
66	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.7	5.8	4.2	11.7	low
67	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.2	6.4	4.5	13.2	low
68	Base	SP	2012	0.0	1.6	0.0	0.0	1.8	0.0	0.0	0.0	0.0	77.3	4.9	3.3	10.6	low
69	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.9	8.7	6.2	18.6	low
70	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.0	3.6	2.2	7.0	low
71	Base	SP	2012	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.6	5.3	3.4	10.8	low
72	Base	SP	2012	0.0	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.7	4.8	4.8	15.7	low
73	Base	SP	2012	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.1	3.4	2.8	10.8	low
74	Base	SP	2012	0.0	0.9	0.0	0.0	5.5	0.0	0.0	0.0	0.0	77.6	3.8	3.5	9.4	low
75	Base	SP	2012	0.0	18.3	0.0	0.0	5.2	0.0	0.0	0.0	0.0	68.6	4.7	3.6	12.0	low
76	Base	SP	2012	0.0	31.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.1	3.9	3.0	12.3	low

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
77	Base	SP	2012	0.0	20.3	0.0	0.0	1.4	0.0	0.0	0.0	0.0	59.3	1.3	0.8	3.6	moderate
78	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.9	5.2	3.5	10.6	low
79	Base	SP	2012	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.9	4.2	3.1	9.1	low
80	Base	SP	2012	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.9	6.2	7.0	16.7	low
81	Base	SP	2012	0.0	17.6	0.0	0.0	1.8	0.0	0.0	0.0	0.0	67.2	3.3	2.4	8.5	low
82	Base	SP	2012	0.0	19.7	0.0	0.0	5.0	0.0	0.0	0.0	0.0	62.0	4.5	3.5	12.9	low
83	Base	SP	2012	0.0	1.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	73.5	3.3	2.4	7.9	low
84	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.2	6.4	6.3	15.5	low
85	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.6	5.3	4.1	11.9	low
86	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.5	5.6	5.8	13.6	low
87	Base	SP	2012	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.2	7.7	8.5	20.6	low
88	Base	SP	2012	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.8	4.7	3.5	11.3	low
89	Base	SP	2012	0.0	1.1	0.0	0.0	12.3	0.0	0.0	0.0	0.0	75.2	3.0	1.6	6.2	low
90	Base	SP	2012	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	82.6	3.8	2.9	8.2	low
91	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.1	6.1	5.8	14.7	low
92	Base	SP	2012	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.4	3.3	2.2	6.8	low
93	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.3	7.6	8.1	19.2	low
94	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.6	4.7	2.9	8.9	low
95	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.4	5.2	3.2	10.0	low
96	Base	SP	2012	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.8	7.0	7.3	18.2	low
97	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.4	4.5	3.2	8.9	low
98	Base	SP	2012	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.2	2.8	1.9	5.3	moderate
99	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.1	4.2	3.7	10.0	low
100	Base	SP	2012	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	1.4	1.1	7.2	low
101	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.9	4.0	3.1	8.7	low
102	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.6	0.7	0.0	1.0	high
103	Base	SP	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.4	3.9	4.8	11.3	low
104	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.3	6.5	5.8	15.3	low
105	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.3	1.9	2.0	5.6	moderate
106	Base	SP	2011	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9	1.5	1.2	4.1	moderate
107	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.2	4.4	3.2	9.2	low
108	Base	SP	2011	0.0	27.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.0	2.2	1.8	7.0	low
109	Base	SP	2011	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	44.4	2.5	2.2	10.6	low
110	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.6	7.0	5.3	15.0	low
111	Base	SP	2011	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.5	4.3	3.1	8.8	low
112	Base	SP	2011	0.0	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.6	3.9	3.7	15.1	low
113	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.6	7.3	5.6	15.2	low
114	Base	SP	2011	0.0	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.4	3.6	3.1	15.0	low

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
115	Base	SP	2011	14.2	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	68.0	4.2	2.8	10.3	low
116	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.7	4.0	2.9	8.2	low
117	Base	SP	2011	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.0	5.2	3.7	11.8	low
118	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.2	4.1	3.0	13.6	low
119	Base	SP	2011	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.4	5.7	3.8	11.9	low
120	Base	SP	2011	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.6	2.5	1.7	5.7	moderate
121	Base	SP	2011	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.7	2.7	2.5	7.4	low
122	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.8	3.1	2.0	7.1	low
123	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.2	2.1	1.4	4.4	moderate
124	Base	SP	2011	0.0	8.3	0.0	0.0	2.4	0.0	0.0	0.0	0.0	53.2	1.9	1.3	6.1	low
125	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0	5.6	5.7	14.1	low
126	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.7	3.0	2.6	7.2	low
127	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.2	4.2	3.0	8.7	low
128	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.6	4.1	2.9	8.7	low
129	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.4	0.9	0.7	2.5	moderate
130	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.1	3.7	2.3	7.2	low
131	Base	SP	2011	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.1	4.1	3.0	8.5	low
132	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.0	1.3	0.6	2.7	moderate
133	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.3	5.0	6.8	19.5	low
134	HCl	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.0	0.7	1.3	3.0	moderate
135	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.0	3.8	2.9	8.1	low
136	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.0	5.8	5.1	13.0	low
137	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.5	5.5	4.7	11.9	low
138	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.3	4.4	3.1	8.8	low
139	Base	SP	2011	0.0	0.7	0.0	0.0	2.3	0.0	0.0	0.0	0.0	80.5	5.4	4.4	12.1	low
140	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.3	5.7	4.6	12.9	low
141	Base	SP	2011	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.9	2.3	2.0	6.1	low
142	Base	SP	2011	0.0	36.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.6	1.6	1.1	5.0	moderate
143	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.0	5.9	4.7	13.1	low
144	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.9	1.9	1.0	3.6	moderate
145	Base	SP	2011	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.9	4.8	4.1	12.5	low
146	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.9	4.4	3.7	10.4	low
147	Base	SP	2011	0.0	0.7	0.0	0.0	1.4	0.0	0.0	0.0	0.0	81.2	5.2	3.8	11.0	low
148	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.5	1.5	0.9	3.2	moderate
149	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.6	5.8	4.0	12.3	low
150	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.9	4.7	4.0	11.4	low
151	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.5	7.0	4.9	14.8	low
152	Base	SP	2011	0.0	56.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.4	1.8	1.6	10.9	low

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
153	Base	SP	2011	0.0	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.9	3.9	3.7	15.3	low
154	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.0	5.3	4.0	11.1	low
155	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.8	5.5	4.1	11.5	low
156	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.6	2.7	1.5	5.0	moderate
157	Base	SP	2011	0.0	1.2	0.0	0.0	2.3	0.0	0.0	0.0	0.0	82.4	4.1	3.0	8.7	low
158	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.3	6.1	5.1	13.8	low
159	Base	SP	2011	0.0	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.2	1.5	1.3	4.8	moderate
160	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.1	6.1	5.0	13.9	low
161	Base	SP	2011	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.3	2.3	2.0	6.0	moderate
162	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.6	2.0	1.3	4.5	moderate
163	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.3	6.2	4.3	12.9	low
164	Base	SP	2011	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	75.0	3.0	2.6	7.5	low
165	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.1	3.1	2.4	7.0	low
166	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.6	3.7	4.1	10.3	low
167	Base	SP	2011	0.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.3	4.1	3.1	11.2	low
168	Base	SP	2011	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.3	3.4	3.0	8.1	low
169	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.6	0.0	1.8	high
170	Base	SP	2011	0.0	0.7	0.0	0.0	1.6	0.0	0.0	0.0	0.0	81.5	5.4	4.0	11.6	low
171	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.9	5.7	4.7	12.9	low
172	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.5	4.0	3.3	8.9	low
173	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.5	2.1	1.2	4.2	moderate
174	Base	SP	2011	0.0	1.1	0.0	0.0	7.5	0.0	0.0	0.0	0.0	76.1	4.2	3.6	10.3	low
175	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.5	6.5	5.9	15.1	low
176	Base	SP	2011	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.6	2.5	2.3	7.1	low
177	Base	SP	2011	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.2	2.3	2.2	6.1	low
178	Base	SP	2011	0.0	1.6	0.0	0.0	2.2	0.0	0.0	0.0	0.0	79.6	6.0	4.6	13.4	low
179	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.6	5.1	4.6	12.1	low
180	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.7	5.4	4.7	13.1	low
181	Base	SP	2011	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	78.2	4.3	3.0	9.3	low
182	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.5	3.0	3.5	8.2	low
183	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.6	2.6	2.1	6.3	low
184	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.5	5.2	3.7	10.7	low
185	Base	SP	2011	0.0	0.8	0.0	0.0	2.7	0.0	0.0	0.0	0.0	59.3	2.0	1.6	6.1	low
186	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.1	4.6	3.8	10.5	low
187	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.6	1.2	0.8	2.7	moderate
188	Base	SP	2011	0.0	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9	4.6	3.6	12.7	low
189	Base	SP	2011	0.0	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.3	1.9	1.6	6.1	low
190	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.3	5.3	3.8	11.4	low

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
191	Base	SP	2011	0.0	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.6	2.2	1.6	9.5	low
192	Base	SP	2011	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.8	1.7	1.1	3.6	moderate
193	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.0	4.9	4.2	13.6	low
194	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.0	4.0	3.4	9.6	low
195	Base	SP	2011	0.0	37.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.4	1.4	1.5	6.8	low
196	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.1	4.7	4.5	11.6	low
197	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.4	3.7	2.9	8.4	low
198	Base	SP	2011	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.3	6.5	5.6	15.0	low
199	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.6	0.9	0.0	1.3	high
200	Base	SP	2011	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7	4.0	2.9	10.3	low
201	Base	SP	2011	0.0	1.3	0.0	0.0	2.4	0.0	0.0	0.0	0.0	81.4	4.3	3.0	9.0	low
202	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.1	3.2	2.8	8.1	low
203	Base	SP	2011	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.7	3.4	2.1	6.7	low
204	Base	SP	2011	0.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.2	2.5	2.0	7.7	low
205	Base	SP	2011	0.0	28.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.7	2.4	2.0	7.7	low
206	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.9	6.4	4.6	13.4	low
207	Base	SP	2011	0.0	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.6	4.2	3.8	12.7	low
208	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.5	6.4	4.9	13.7	low
209	Base	SP	2011	0.0	32.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.1	3.9	2.7	11.6	low
210	Base	SP	2011	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.9	1.2	1.0	3.1	moderate
211	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.8	4.6	5.1	16.0	low
212	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5	2.1	1.8	5.8	moderate
213	Base	SP	2011	0.0	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2	1.0	0.8	4.1	moderate
214	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.0	5.3	4.3	11.6	low
215	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.9	5.4	4.9	12.8	low
216	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.2	2.3	1.7	6.1	low
217	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.7	4.7	4.6	14.1	low
218	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.7	2.3	1.6	6.2	low
219	Base	SP	2011	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.1	2.6	1.8	6.2	low
220	Base	SP	2011	0.0	0.8	0.0	0.0	1.5	0.0	0.0	0.0	0.0	81.6	5.2	3.9	11.1	low
221	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.3	4.0	2.8	8.8	low
222	Base	SP	2011	0.0	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.2	1.3	1.0	4.7	moderate
223	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.0	4.5	4.3	11.5	low
224	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.3	5.9	4.1	12.4	low
225	Base	SP	2011	0.0	45.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.2	2.9	3.0	13.8	low
226	Base	SP	2011	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.0	1.5	1.0	3.2	moderate
227	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.3	3.5	2.7	8.1	low
228	Base	SP	2011	0.0	1.2	0.0	0.0	2.2	0.0	0.0	0.0	0.0	82.8	4.2	2.9	8.6	low

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
229	HCl	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.1	1.2	1.6	3.0	moderate
230	Base	SP	2011	0.0	4.1	0.0	0.0	2.4	0.0	0.0	0.0	0.0	53.4	3.1	2.4	10.2	low
231	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.0	6.5	3.7	12.9	low
232	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.0	3.7	2.3	7.3	low
233	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.9	4.5	3.9	13.5	low
234	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.2	4.3	2.8	8.8	low
235	Base	SP	2011	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.6	1.4	1.0	3.1	moderate
236	Base	SP	2011	0.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	74.5	2.9	2.5	7.3	low
237	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.5	3.1	2.9	14.9	low
238	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.5	6.4	5.9	15.4	low
239	Base	SP	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.4	5.1	4.3	11.5	low
240	Base	SP	2011	0.0	3.7	0.0	0.0	2.6	0.0	0.0	0.0	0.0	79.0	4.1	3.1	9.1	low
241	Base	SP	2011	0.0	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0	84.4	5.9	4.0	11.6	low
242	HCl	SP	2013	0.0	0.0	40.2	9.7	0.0	0.0	0.0	0.0	0.0	10.3	0.3	0.3	5.4	moderate
243	HCl	SP	2013	0.0	0.0	24.6	2.3	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	n.d.	n.d.
244	Base	SP	2013	0.0	6.4	0.0	0.9	0.0	0.0	0.0	0.0	0.0	53.7	3.3	2.8	11.3	low
245	HCl	SP	2013	0.0	4.2	33.7	5.8	0.0	0.0	0.0	0.0	0.0	21.7	0.5	0.4	4.0	moderate
246	Base	SP	2013	0.0	1.3	39.2	9.8	0.0	0.0	0.0	0.0	0.0	4.9	0.3	0.3	n.d.	n.d.
247	Base	SP	2013	0.0	13.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	36.4	2.2	1.8	11.1	low
248	Base	SP	2013	0.0	1.4	22.4	1.2	0.0	0.0	0.0	0.0	0.0	15.0	0.5	0.4	6.0	low
249	n.d.	SP	2013	0.0	0.0	46.8	0.0	0.0	0.0	0.0	0.0	0.0	9.5	0.5	0.0	n.d.	n.d.
250	n.d.	SP	2013	0.0	1.3	41.7	2.8	0.0	0.0	0.0	0.0	0.0	16.5	0.4	0.3	4.6	moderate
251	n.d.	SP	2013	0.0	0.7	23.0	10.3	0.0	0.0	0.0	0.0	0.0	24.2	1.4	1.1	10.3	low
252	HCl	SP	2013	0.0	1.1	20.5	0.0	0.0	0.0	0.0	0.0	0.0	56.1	2.6	2.6	9.3	low
253	n.d.	SP	2013	0.0	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.2	0.0	n.d.	n.d.
254	n.d.	SP	2013	0.0	0.7	30.6	5.5	0.0	0.0	0.0	0.0	0.0	9.6	0.0	0.0	n.d.	n.d.
255	n.d.	SP	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.4	0.2	n.d.	n.d.
256	HCl	SP	2013	0.0	0.0	45.8	24.3	0.0	0.0	0.0	0.0	0.0	11.5	0.6	0.7	11.4	low
257	HCl	SP	2013	0.0	0.0	37.3	9.0	0.0	0.0	0.0	0.0	0.0	14.0	0.5	0.8	9.4	low
258	HCl	SP	2013	0.0	0.0	9.4	13.1	0.0	0.0	0.0	0.0	0.0	22.0	1.1	1.0	9.9	low
259	HCl	SP	2013	0.0	0.0	31.9	5.9	0.0	0.0	0.0	0.0	0.0	43.7	1.1	0.8	4.2	moderate
260	HCl	SP	2013	0.0	0.0	38.2	8.4	0.0	0.0	0.0	0.0	0.0	27.6	1.3	1.1	8.9	low
261	n.d.	SP	2013	0.0	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.2	0.0	n.d.	n.d.
262	HCl	SP	2013	0.0	0.9	22.0	0.0	0.0	0.0	0.0	0.0	0.0	55.3	2.4	2.6	9.0	low
263	HCl	SP	2013	0.0	0.9	22.5	0.0	0.0	0.0	0.0	0.0	0.0	53.4	2.6	2.4	9.3	low
264	HCl	SP	2013	0.0	0.7	33.3	21.2	0.0	2.7	0.0	0.0	0.0	24.1	0.3	0.3	2.5	moderate
265	HCl	SP	2013	0.0	11.8	39.3	1.6	0.0	0.0	0.0	0.0	0.0	21.6	1.0	0.8	8.3	low
266	HCl	SP	2013	0.0	1.5	19.7	10.0	0.0	0.0	0.0	0.0	0.0	11.5	0.5	0.5	7.8	low

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
267	HCl	SP	2013	0.0	0.8	31.6	8.5	0.0	0.0	0.0	0.0	0.0	19.5	0.3	0.0	1.5	high
268	HCl	SP	2013	0.0	0.0	59.7	2.8	0.0	6.3	0.0	0.0	0.0	16.9	0.0	0.0	0.0	high
269	HCl	SP	2013	0.0	0.0	58.6	0.0	0.0	0.0	0.0	0.0	0.0	10.9	0.4	0.5	8.5	low
270	HCl	SP	2013	0.0	3.7	66.4	0.0	0.0	0.0	0.0	0.0	0.0	18.1	1.3	1.4	15.1	low
271	HCl	SP	2013	0.0	0.0	56.6	2.3	0.0	0.0	0.0	0.0	0.0	23.5	1.4	1.3	11.4	low
272	HCl	SP	2013	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	45.5	1.8	1.9	8.2	low
273	HCl	SP	2013	0.0	0.9	0.0	0.0	1.8	0.0	0.0	0.0	0.0	81.6	4.0	2.9	8.4	low
274	HCl	SP	2013	0.0	0.0	80.8	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.4	0.5	n.d.	n.d.
275	HCl	SP	2013	0.0	0.0	39.9	8.6	0.0	0.0	0.0	0.0	0.0	12.0	0.5	0.6	9.0	low
276	Base	SP	2013	0.0	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9	4.6	3.7	12.8	low
277	HCl	SP	2013	0.0	0.0	33.1	4.6	0.0	0.0	0.0	0.0	0.0	21.9	0.0	0.0	0.0	high
278	HCl	SP	2013	0.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.4	0.6	8.6	low
279	HCl	SP	2013	0.0	0.0	43.8	3.4	0.0	0.0	0.0	0.0	0.0	9.4	0.6	0.6	n.d.	n.d.
280	HCl	SP	2013	0.0	0.0	12.8	2.6	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	n.d.	n.d.
281	Base	SP	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	n.d.	n.d.
282	Base	SP	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.0	5.5	3.8	11.4	low
283	n.d.	SP	2013	0.0	0.0	2.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
284	Base	SP	2013	0.8	0.0	65.7	1.5	0.0	0.0	0.0	0.0	0.0	13.6	0.7	0.5	8.6	low
285	HCl	SP	2013	0.0	0.0	35.4	34.4	0.0	0.0	0.0	0.0	0.0	16.9	0.8	0.9	10.0	low
286	n.d.	SP	2013	0.0	0.0	0.0	42.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
287	n.d.	SP	2013	0.0	0.0	96.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
288	n.d.	SP	2013	0.0	0.0	98.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
289	n.d.	SP	2013	0.0	0.0	97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
290	n.d.	SP	2013	0.0	0.0	0.0	79.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
291	n.d.	SP	2013	0.0	0.0	0.0	80.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
292	n.d.	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.6	0.4	n.d.	n.d.
293	n.d.	GO	2013	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	0.7	0.5	10.3	low
294	n.d.	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	n.d.	n.d.
295	n.d.	GO	2013	1.3	0.0	1.7	8.3	1.7	0.0	0.0	0.0	0.0	4.0	0.0	0.0	n.d.	n.d.
296	n.d.	GO	2013	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.6	0.5	n.d.	n.d.
297	HCl	GO	2013	0.0	0.0	26.9	0.0	0.0	12.6	0.0	0.0	0.0	53.5	0.0	1.2	2.2	moderate
298	HCl	GO	2013	0.0	0.0	0.0	48.6	0.0	6.2	0.0	0.0	0.0	29.0	0.0	0.4	1.3	high
299	n.d.	GO	2013	15.7	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.5	0.5	n.d.	n.d.
300	n.d.	GO	2013	28.2	4.8	7.7	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.4	0.2	n.d.	n.d.
301	n.d.	GO	2013	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.8	0.6	n.d.	n.d.
302	n.d.	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	18.1	0.4	0.3	4.0	moderate
303	n.d.	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.2	0.0	n.d.	n.d.
304	n.d.	GO	2013	0.0	0.0	4.4	0.8	0.0	0.0	0.0	0.0	0.0	7.5	0.6	0.4	n.d.	n.d.

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
305	n.d.	GO	2013	0.0	0.7	0.0	0.0	3.8	0.0	0.0	0.0	0.0	4.6	0.0	0.0	n.d.	n.d.
306	n.d.	GO	2013	0.0	8.8	20.5	0.0	0.0	0.0	0.0	0.0	0.0	12.1	0.8	0.7	12.7	low
307	HCl	GO	2013	0.0	0.0	0.0	0.0	0.0	23.9	0.0	0.0	0.0	72.1	0.0	0.0	0.0	high
308	HCl	GO	2013	0.0	0.0	0.0	0.0	0.0	19.6	0.0	0.0	0.0	71.9	0.0	0.0	0.0	high
309	n.d.	GO	2013	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.6	0.4	7.4	low
310	n.d.	GO	2013	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.3	0.3	n.d.	n.d.
311	n.d.	GO	2013	17.1	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.8	0.8	13.3	low
312	n.d.	GO	2013	12.4	1.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.6	0.6	n.d.	n.d.
313	n.d.	GO	2013	0.0	1.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.7	0.9	n.d.	n.d.
314	n.d.	GO	2013	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
315	n.d.	GO	2013	33.0	0.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.4	0.3	6.3	low
316	n.d.	GO	2013	30.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	n.d.	n.d.
317	HCl	GO	2013	0.0	0.0	0.0	0.0	0.0	16.8	0.0	0.0	0.0	80.0	0.0	0.0	0.0	high
318	n.d.	GO	2013	0.0	2.9	0.0	7.3	0.0	0.0	0.0	0.0	0.0	8.3	0.3	0.2	n.d.	n.d.
319	n.d.	GO	2013	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.3	0.0	n.d.	n.d.
320	n.d.	GO	2013	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	0.3	0.3	n.d.	n.d.
321	n.d.	GO	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	n.d.	n.d.
322	n.d.	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.4	0.4	n.d.	n.d.
323	n.d.	GO	2013	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.2	0.0	n.d.	n.d.
324	n.d.	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	0.4	0.5	n.d.	n.d.
325	n.d.	GO	2013	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.3	0.3	n.d.	n.d.
326	n.d.	GO	2013	21.6	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.3	0.3	n.d.	n.d.
327	n.d.	GO	2013	20.8	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.4	0.3	n.d.	n.d.
328	n.d.	GO	2013	4.8	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.3	0.3	n.d.	n.d.
329	n.d.	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.1	1.5	0.9	8.8	low
330	n.d.	GO	2013	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	9.7	0.5	0.5	n.d.	n.d.
331	HCl	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.9	1.8	1.7	3.7	moderate
332	n.d.	GO	2013	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.5	0.6	8.6	low
333	n.d.	GO	2013	0.0	0.0	37.4	27.3	0.0	0.0	0.0	0.0	0.0	13.5	0.7	0.7	10.4	low
334	n.d.	GO	2013	0.0	1.8	6.5	0.0	0.0	1.2	0.0	0.0	0.0	1.5	0.0	0.0	n.d.	n.d.
335	HCl	GO	2013	0.0	0.0	0.0	0.0	0.0	20.5	0.0	0.0	0.0	83.3	0.0	0.0	0.0	high
336	HCl	GO	2013	0.0	0.0	1.6	0.0	0.0	3.3	0.0	0.0	0.0	78.1	0.0	0.0	0.0	high
337	n.d.	GO	2013	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	n.d.	n.d.
338	n.d.	GO	2013	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.3	0.2	n.d.	n.d.
339	n.d.	GO	2013	0.0	1.7	0.0	0.8	0.0	0.0	0.0	0.0	0.0	19.6	1.3	0.9	11.4	low
340	n.d.	GO	2013	0.0	1.4	3.2	0.0	0.0	1.6	0.0	0.0	0.0	0.7	0.0	0.0	n.d.	n.d.
341	HCl	GO	2013	0.0	0.0	12.3	5.6	0.0	20.9	0.0	0.0	0.0	58.2	1.3	1.3	4.6	moderate
342	HCl	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.4	0.8	0.9	2.6	moderate

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
343	n.d.	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9	1.5	0.9	6.8	low
344	n.d.	GO	2013	0.0	2.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.5	0.5	n.d.	n.d.
345	n.d.	GO	2013	27.6	0.0	31.4	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.6	0.6	n.d.	n.d.
346	n.d.	GO	2013	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	1.3	0.9	10.3	low
347	n.d.	GO	2013	4.6	4.0	7.5	2.8	0.0	0.0	0.0	0.0	0.0	12.8	0.7	0.4	8.4	low
348	n.d.	GO	2013	12.2	4.3	8.4	3.2	0.0	0.0	0.0	0.0	0.0	14.9	0.6	0.5	7.6	low
349	n.d.	GO	2013	15.4	4.3	6.8	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.7	0.5	8.6	low
350	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.7	0.5	n.d.	n.d.
351	n.d.	GO	2013	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.9	0.9	14.2	low
352	n.d.	GO	2013	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.3	0.2	n.d.	n.d.
353	n.d.	GO	2013	4.7	0.0	1.5	0.0	0.0	2.2	0.0	0.0	0.0	11.3	0.0	0.0	0.0	high
354	n.d.	GO	2013	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.5	0.4	n.d.	n.d.
355	HCl	GO	2013	0.0	0.0	0.0	0.0	0.0	16.3	0.0	0.0	0.0	72.1	0.0	0.0	0.0	high
356	HCl	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.7	1.7	1.9	3.7	moderate
357	n.d.	GO	2013	3.9	0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
358	HCl	GO	2013	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	91.0	0.0	0.0	0.0	high
359	n.d.	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	0.6	0.7	n.d.	n.d.
360	n.d.	GO	2013	8.3	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	9.8	0.7	0.5	n.d.	n.d.
361	n.d.	GO	2013	7.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.3	0.0	n.d.	n.d.
362	n.d.	GO	2014	11.8	2.7	5.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	n.d.	n.d.
363	n.d.	GO	2013	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2	0.7	0.6	6.1	low
364	n.d.	GO	2013	0.0	1.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
365	n.d.	GO	2013	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.3	0.0	n.d.	n.d.
366	n.d.	GO	2013	22.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.6	0.4	n.d.	n.d.
367	n.d.	GO	2013	12.0	1.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	21.6	1.1	0.8	8.7	low
368	n.d.	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.7	0.8	n.d.	n.d.
369	n.d.	GO	2013	0.0	1.2	0.0	0.0	4.4	0.0	0.0	0.0	0.0	1.5	0.0	0.0	n.d.	n.d.
370	n.d.	GO	2013	7.5	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	n.d.	n.d.
371	n.d.	GO	2013	0.0	11.2	11.3	0.0	0.0	0.0	0.0	0.0	0.0	13.2	0.5	0.5	7.6	low
372	n.d.	GO	2013	32.7	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	9.5	0.3	0.3	n.d.	n.d.
373	n.d.	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	0.6	0.4	9.6	low
374	n.d.	GO	2013	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	n.d.	n.d.
375	HCl	GO	2013	0.0	0.0	0.0	0.0	0.0	7.8	0.0	0.0	0.0	90.0	0.0	0.0	0.0	high
376	n.d.	GO	2013	0.0	3.7	3.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.3	0.0	n.d.	n.d.
377	n.d.	GO	2014	15.5	6.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.5	0.4	n.d.	n.d.
378	n.d.	GO	2013	2.4	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.5	0.4	n.d.	n.d.
379	HCl	GO	2014	0.0	0.0	0.0	0.0	0.0	29.2	0.0	0.0	0.0	70.7	0.0	0.3	0.4	high
380	n.d.	GO	2014	0.0	10.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.5	0.4	n.d.	n.d.

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
381	n.d.	GO	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	n.d.	n.d.
382	n.d.	GO	2014	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.2	0.0	n.d.	n.d.
383	n.d.	GO	2014	12.1	2.7	14.8	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.3	0.2	n.d.	n.d.
384	n.d.	GO	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.7	0.5	n.d.	n.d.
385	n.d.	GO	2013	1.1	9.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.3	0.3	n.d.	n.d.
386	n.d.	GO	2014	2.0	19.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.3	0.3	n.d.	n.d.
387	n.d.	GO	2013	22.1	9.1	10.6	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.4	0.4	n.d.	n.d.
388	n.d.	GO	2013	24.6	4.6	50.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	high
389	n.d.	GO	2013	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.4	0.3	n.d.	n.d.
390	n.d.	GO	2013	0.0	1.8	44.9	34.4	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	n.d.	n.d.
391	n.d.	GO	2013	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	n.d.	n.d.
392	n.d.	GO	2013	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	54.8	2.0	2.9	8.9	low
393	Base	GO	2013	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.0	5.1	3.4	10.1	low
394	Base	GO	2013	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.2	3.2	3.0	9.0	low
395	Base	GO	2013	0.0	44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.8	1.8	1.5	8.0	low
396	Base	GO	2013	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.7	6.4	4.9	14.7	low
397	Base	GO	2013	0.0	30.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.1	2.9	2.2	9.9	low
398	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.5	4.7	3.7	10.7	low
399	Base	GO	2013	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.3	3.2	3.2	9.4	low
400	Base	GO	2013	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.6	1.7	1.1	7.6	low
401	Base	GO	2013	0.0	44.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	1.9	1.6	8.9	low
402	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.5	3.0	1.8	6.9	low
403	Base	GO	2013	0.0	23.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.4	4.1	3.1	11.7	low
404	Base	GO	2013	55.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	0.3	0.2	1.9	high
405	Base	GO	2013	0.0	21.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.3	1.0	0.6	3.4	moderate
406	Base	GO	2013	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.7	4.1	3.8	13.5	low
407	Base	GO	2013	0.0	23.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.9	2.6	2.4	9.5	low
408	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.9	4.7	2.7	9.0	low
409	Base	GO	2013	0.0	46.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.2	1.5	1.3	7.4	low
410	Base	GO	2013	0.0	44.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.7	1.4	1.2	6.7	low
411	Base	GO	2013	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.7	4.1	3.3	9.4	low
412	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.2	6.6	6.6	15.6	low
413	Base	GO	2013	0.0	33.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.9	2.9	1.8	9.1	low
414	Base	GO	2013	0.0	25.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.4	3.8	2.9	11.8	low
415	Base	GO	2013	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.0	5.8	4.2	12.6	low
416	Base	GO	2013	0.0	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.2	4.1	2.9	9.6	low
417	Base	GO	2013	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.3	1.1	0.8	3.8	moderate
418	Base	GO	2013	0.0	33.4	0.0	0.0	2.6	0.0	0.0	0.0	0.0	45.0	1.6	1.3	6.5	low

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
419	Base	GO	2013	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.9	6.1	4.5	12.8	low
420	Base	GO	2013	27.7	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.8	2.0	1.6	8.4	low
421	Base	GO	2013	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.6	3.7	2.3	7.4	low
422	Base	GO	2013	6.4	38.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.8	1.6	1.1	7.0	low
423	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.8	3.8	2.5	7.5	low
424	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.9	3.9	2.4	7.7	low
425	Base	GO	2013	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.7	3.8	3.0	9.0	low
426	Base	GO	2013	0.0	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.8	1.3	0.7	3.5	moderate
427	Base	GO	2013	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	68.6	4.2	3.5	11.3	low
428	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.9	3.8	2.5	8.9	low
429	Base	GO	2013	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.8	5.4	3.0	10.4	low
430	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.9	5.0	3.2	9.8	low
431	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.4	6.3	5.9	14.8	low
432	Base	GO	2013	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.4	5.6	3.9	11.8	low
433	Base	GO	2013	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.4	2.7	2.3	7.7	low
434	Base	GO	2013	0.0	39.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.3	1.6	1.3	8.0	low
435	Base	GO	2013	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.0	7.3	7.2	18.3	low
436	Base	GO	2013	8.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.2	3.0	2.1	8.4	low
437	Base	GO	2013	0.0	24.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.7	1.2	0.8	4.6	moderate
438	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.6	6.0	6.2	17.1	low
439	Base	GO	2013	0.0	81.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.7	0.5	8.2	low
440	Base	GO	2013	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.6	4.6	5.1	16.0	low
441	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.7	2.9	2.1	7.0	low
442	Base	GO	2013	0.0	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.4	4.0	3.1	12.0	low
443	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.8	4.6	5.1	13.3	low
444	Base	GO	2013	0.0	39.3	0.0	0.0	3.6	0.0	0.0	0.0	0.0	39.8	1.8	1.1	7.4	low
445	Base	GO	2013	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.5	5.3	3.9	11.6	low
446	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.0	1.4	1.4	4.4	moderate
447	Base	GO	2013	0.0	42.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.3	3.4	3.4	15.7	low
448	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.9	4.6	3.1	9.4	low
449	Base	GO	2013	0.0	34.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.8	3.1	2.8	12.0	low
450	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.5	5.6	6.7	15.5	low
451	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.1	7.3	8.3	20.5	low
452	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.9	5.6	5.2	12.9	low
453	Base	GO	2013	0.0	32.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.9	3.1	3.2	12.9	low
454	Base	GO	2013	0.0	37.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.5	2.7	2.0	9.6	low
455	Base	GO	2013	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.4	4.6	3.7	11.3	low
456	Base	GO	2013	0.0	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5	1.5	0.9	3.8	moderate

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
457	Base	GO	2013	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.7	5.3	4.0	11.7	low
458	Base	GO	2013	0.0	26.1	10.4	0.0	0.0	0.0	0.0	0.0	0.0	48.6	3.4	2.7	12.5	low
459	Base	GO	2013	0.0	32.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.9	1.2	1.2	5.3	moderate
460	Base	GO	2013	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.3	5.6	4.2	11.9	low
461	Base	GO	2013	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.7	4.7	3.3	12.9	low
462	Base	GO	2013	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0	63.0	3.5	2.4	9.4	low
463	Base	GO	2013	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.4	4.8	4.1	11.7	low
464	Base	GO	2013	7.9	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.6	3.2	2.4	11.0	low
465	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.1	4.0	2.6	8.8	low
466	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.3	5.5	4.7	12.6	low
467	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.8	5.3	3.3	10.0	low
468	Base	GO	2013	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.1	5.7	6.8	15.2	low
469	Base	GO	2013	0.0	34.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.5	0.7	0.6	3.0	moderate
470	Base	GO	2013	0.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.2	4.7	3.7	11.3	low
471	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.6	4.2	5.6	20.1	low
472	Base	GO	2013	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.3	5.1	7.7	16.5	low
473	Base	GO	2013	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.2	3.9	3.3	12.0	low
474	Base	GO	2013	0.0	54.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.6	1.4	1.0	6.7	low
475	Base	GO	2013	0.0	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0	2.8	2.7	11.7	low
476	Base	GO	2013	0.0	38.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.6	2.7	2.6	11.3	low
477	Base	GO	2013	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.3	4.8	3.9	11.2	low
478	Base	GO	2013	0.0	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.3	5.0	3.9	14.3	low
479	Base	GO	2013	0.0	30.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.3	3.9	3.4	13.6	low
480	Base	GO	2013	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.5	0.6	0.3	2.1	moderate
481	Base	GO	2013	6.9	39.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6	1.3	0.9	5.7	moderate
482	Base	GO	2013	0.0	35.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	1.0	0.9	4.8	moderate
483	Base	GO	2013	0.0	37.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0	1.8	1.4	10.9	low
484	Base	GO	2013	4.0	52.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.3	2.2	2.4	14.4	low
485	Base	GO	2013	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.0	2.1	1.5	5.6	moderate
486	Base	GO	2013	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.4	5.6	4.9	13.0	low
487	Base	GO	2013	0.0	48.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.1	1.2	0.8	5.9	moderate
488	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.4	4.4	4.2	12.2	low
489	Base	GO	2013	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.7	3.9	2.4	8.0	low
490	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.2	6.6	6.5	15.8	low
491	Base	GO	2013	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.5	3.8	3.1	9.6	low
492	Base	GO	2013	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.7	5.3	4.6	13.3	low
493	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.3	5.3	4.4	11.8	low
494	Base	GO	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.0	5.9	5.9	15.9	low

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
495	Base	GO	2013	0.0	1.5	0.0	0.0	1.9	0.0	0.0	0.0	0.0	79.6	4.0	3.1	8.9	low
496	n.d.	GO	2013	0.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.5	0.4	n.d.	n.d.
497	Base	GO	2013	0.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.2	3.8	3.1	11.0	low
498	Base	BA	2011	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	62.9	1.7	1.9	5.8	moderate
499	Base	BA	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.6	1.4	1.5	4.8	moderate
500	Base	BA	2012	0.0	27.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.8	1.1	0.8	3.6	moderate
501	Base	BA	2012	0.0	28.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.9	0.7	1.7	5.0	moderate
502	Base	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.7	1.8	1.8	4.7	moderate
503	Base	BA	2012	0.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.9	0.0	5.8	15.3	low
504	Base	BA	2012	0.0	41.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2	1.4	1.1	5.6	moderate
505	Base	BA	2012	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.6	2.4	1.6	5.1	moderate
506	Base	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.1	2.4	1.9	5.7	moderate
507	Base	BA	2012	0.0	43.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.8	2.8	3.4	13.8	low
508	Base	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.9	3.6	6.8	13.7	low
509	Base	BA	2012	0.0	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.9	3.4	3.4	12.7	low
510	Base	BA	2012	0.0	5.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	52.3	0.7	3.6	8.1	low
511	Base	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.9	1.9	1.9	5.1	moderate
512	Base	BA	2012	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.8	1.7	1.1	4.3	moderate
513	Base	BA	2012	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.3	3.0	1.9	6.4	low
514	Base	BA	2012	0.0	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.7	1.4	1.2	5.0	moderate
515	Base	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.2	1.4	0.9	3.0	moderate
516	Base	BA	2012	0.0	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.1	0.6	0.3	1.8	high
517	Base	BA	2012	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.5	1.5	1.2	4.5	moderate
518	Base	BA	2012	0.0	34.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.6	2.5	1.7	7.7	low
519	Base	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.4	2.7	2.6	7.2	low
520	n.d.	BA	2012	0.0	0.0	46.2	25.1	0.0	0.0	0.0	0.0	0.0	6.3	0.2	0.3	n.d.	n.d.
521	n.d.	BA	2012	0.0	1.2	58.7	5.6	0.0	0.0	0.0	0.0	0.0	8.8	0.4	0.3	n.d.	n.d.
522	Base	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.5	1.4	0.7	2.7	moderate
523	n.d.	BA	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.8	n.d.	n.d.
524	HCl	BA	2012	0.0	0.0	32.7	8.5	0.0	0.0	0.0	0.0	0.0	33.2	0.8	1.0	5.4	moderate
525	HCl	BA	2012	0.0	0.0	0.0	0.0	0.0	7.9	0.0	0.0	0.0	86.8	0.0	0.0	0.0	high
526	n.d.	BA	2012	0.0	0.0	20.9	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0	0.8	7.7	low
527	n.d.	BA	2012	0.0	8.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	n.d.	n.d.
528	HCl	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.1	0.0	0.9	3.1	moderate
529	n.d.	BA	2012	0.0	0.0	45.6	8.3	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.6	n.d.	n.d.
530	n.d.	BA	2012	0.0	1.6	46.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	n.d.	n.d.
531	Base	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.5	3.4	3.9	10.8	low
532	n.d.	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7	0.0	0.0	0.0	high

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
533	n.d.	BA	2012	0.0	0.0	12.3	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	0.0	high
534	n.d.	BA	2012	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.2	0.0	0.0	0.0	high
535	n.d.	BA	2012	0.0	4.8	38.4	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	1.6	n.d.	n.d.
536	n.d.	BA	2012	0.0	0.0	32.3	1.7	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	n.d.	n.d.
537	n.d.	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.9	n.d.	n.d.
538	n.d.	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.7	0.0	1.2	4.0	moderate
539	n.d.	BA	2012	44.4	4.3	33.8	0.9	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	n.d.	n.d.
540	Base	BA	2012	0.0	48.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.3	0.6	0.8	3.9	moderate
541	n.d.	BA	2012	0.0	2.6	7.5	4.3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	n.d.	n.d.
542	n.d.	BA	2012	0.0	6.0	33.0	1.9	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	n.d.	n.d.
543	n.d.	BA	2011	0.0	4.3	36.3	2.8	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	n.d.	n.d.
544	n.d.	BA	2011	2.1	0.0	14.3	2.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.9	n.d.	n.d.
545	n.d.	BA	2012	0.0	5.5	0.0	48.6	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.7	n.d.	n.d.
546	n.d.	BA	2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	n.d.	n.d.
547	Base	BA	2012	0.0	0.0	21.1	0.0	0.0	0.0	0.0	0.0	0.0	18.3	0.0	0.0	0.0	high
548	Base	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.5	5.8	4.8	13.6	low
549	n.d.	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1	0.3	0.4	2.9	moderate
550	Base	AC	2014	0.0	40.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.5	2.0	1.5	8.6	low
551	Base	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.1	1.9	1.3	12.4	low
552	n.d.	AC	2014	0.0	0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	37.7	0.6	0.6	3.1	moderate
553	n.d.	AC	2014	0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	41.1	0.7	0.7	3.6	moderate
554	Base	AC	2014	0.0	9.8	0.0	0.0	41.0	0.0	0.0	0.0	0.0	23.9	0.3	0.0	1.1	high
555	n.d.	AC	2014	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	15.5	0.0	0.3	1.8	high
556	Base	AC	2014	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.6	0.6	6.0	moderate
557	Base	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.2	3.1	2.1	8.2	low
558	Base	AC	2014	0.0	41.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.5	2.4	1.7	10.5	low
559	Base	AC	2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.3	3.7	3.3	10.4	low
560	HCl	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.7	0.7	0.9	4.8	moderate
561	HCl	AC	2014	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	75.2	1.1	1.4	3.3	moderate
562	Base	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.3	0.6	0.9	4.2	moderate
563	n.d.	AC	2014	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.3	1.9	high
564	n.d.	AC	2014	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	35.1	0.5	0.9	4.0	moderate
565	n.d.	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	15.6	0.4	0.3	5.0	moderate
566	n.d.	AC	2014	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	30.9	0.7	0.8	4.8	moderate
567	n.d.	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	0.0	high
568	n.d.	AC	2014	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	14.3	0.3	0.2	3.4	moderate
569	n.d.	AC	2014	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	26.0	0.5	0.7	4.7	moderate
570	HCl	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.2	0.8	1.1	4.0	moderate

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
571	n.d.	AC	2014	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.3	2.5	moderate
572	HCl	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.3	1.7	1.1	4.5	moderate
573	n.d.	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.5	1.1	1.4	4.4	moderate
574	HCl	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.1	2.2	1.8	8.1	low
575	n.d.	AC	2014	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	32.4	0.5	0.7	3.8	moderate
576	Base	AC	2014	0.0	42.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.8	0.7	0.4	2.5	moderate
577	n.d.	AC	2014	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	11.5	0.3	0.3	5.1	moderate
578	n.d.	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
579	n.d.	AC	2014	0.0	0.0	1.3	1.8	0.0	0.0	0.0	0.0	0.0	55.2	1.0	1.1	3.8	moderate
580	n.d.	AC	2014	0.0	4.3	0.0	5.1	0.0	0.0	0.0	0.0	0.0	13.3	0.2	0.3	4.2	moderate
581	HCl	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0	1.0	1.4	5.2	moderate
582	Base	AC	2014	0.0	36.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.4	0.6	0.3	2.9	moderate
583	HCl	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6	0.9	1.2	3.6	moderate
584	HCl	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.7	1.6	1.5	3.4	moderate
585	n.d.	AC	2014	0.0	49.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	n.d.	n.d.
586	HCl	AC	2014	0.0	0.0	3.6	2.1	0.0	0.0	0.0	0.0	0.0	64.0	1.1	0.9	3.2	moderate
587	n.d.	AC	2014	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.1	1.2	0.6	3.6	moderate
588	n.d.	AC	2014	0.0	0.0	3.6	3.2	1.9	0.0	0.0	0.0	0.0	6.2	0.0	0.0	n.d.	n.d.
589	n.d.	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3	0.6	0.7	3.8	moderate
590	Base	AC	2014	0.0	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	1.6	1.3	14.6	low
591	n.d.	AC	2014	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.0	24.4	0.6	0.5	4.2	moderate
592	n.d.	AC	2014	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	10.8	0.3	0.2	4.7	moderate
593	n.d.	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	n.d.	n.d.
594	n.d.	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.7	0.5	0.6	3.6	moderate
595	HCl	AC	2014	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	42.8	0.8	0.8	3.6	moderate
596	n.d.	AC	2014	0.0	0.0	0.8	3.8	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	n.d.	n.d.
597	n.d.	AC	2014	0.0	0.0	1.4	1.9	0.0	0.0	0.0	0.0	0.0	13.2	0.3	0.4	4.8	moderate
598	HCl	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	0.5	0.6	4.9	moderate
599	n.d.	AC	2014	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	65.8	1.3	1.8	4.7	moderate
600	n.d.	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.0	1.1	1.3	4.9	moderate
601	Base	AC	2014	0.0	42.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	41.8	0.8	0.5	3.1	moderate
602	Base	AC	2014	0.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.9	0.6	0.3	3.1	moderate
603	n.d.	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.5	0.6	3.3	moderate
604	n.d.	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	n.d.	n.d.
605	Base	AC	2014	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.5	0.6	0.4	3.1	moderate
606	n.d.	AC	2014	0.0	0.0	1.3	5.0	0.0	0.0	0.0	0.0	0.0	16.3	0.3	0.3	4.0	moderate
607	n.d.	AC	2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.4	0.4	0.4	1.5	high
608	Base	AC	2014	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	18.5	0.4	0.4	4.5	moderate

Table S2. Cocaine forms of presentation. Brazilian State and year of apprehension. Quantitative results of cocaine alkaloids and pharmaceutical adulterants. Ratio cocaine/cinnamoyl-cocaine and oxidation levels (cont.)

Item	Cocaine form of presentation	Sample origin State	Year of seizure	Benzocaine / %	Phenacetin / %	Caffeine / %	Lidocaine / %	Amino-pyrine / %	Levamisole / %	Procaine / %	Hydro-xyzine / %	Diltiazem / %	Cocaine / %	*cis*-Cinnamoyl-cocaine / %	*trans*-Cinnamoyl-cocaine / %	Ratio cocaine/ cinnamoyl-cocaine	Oxidation level
609	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.3	4.1	3.0	11.1	low
610	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.3	5.2	4.0	13.3	low
611	Base	DF	2011	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.8	4.9	3.8	13.3	low
612	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.9	4.0	2.9	12.7	low
613	Base	DF	2011	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.7	3.5	3.5	11.3	low
614	n.d.	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	n.d.	n.d.
615	n.d.	DF	2011	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	8.5	0.4	0.0	n.d.	n.d.
616	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.8	0.9	0.5	2.4	moderate
617	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.8	5.8	4.3	14.7	low
618	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.8	6.4	4.7	15.8	low
619	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	2.4	1.9	15.7	low
620	Base	DF	2011	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.4	4.1	2.7	10.3	low
621	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.3	5.3	3.5	12.7	low
622	Base	DF	2011	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.9	5.3	3.3	12.3	low
623	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.5	4.6	3.6	11.8	low
624	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.4	3.7	2.6	12.0	low
625	Base	DF	2011	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.4	4.7	3.6	13.3	low
626	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.1	4.0	2.8	10.5	low
627	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.2	5.4	3.6	13.3	low
628	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.5	6.5	5.7	17.6	low
629	Base	DF	2011	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.0	4.5	3.6	13.8	low
630	Base	DF	2011	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.5	4.6	3.6	13.9	low
631	Base	DF	2011	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.6	4.4	3.5	12.6	low
632	n.d.	DF	2011	6.0	0.0	10.5	13.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	n.d.	n.d.
633	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.3	0.9	0.5	2.5	moderate
634	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7	5.6	5.2	16.3	low
635	n.d.	DF	2011	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	n.d.	n.d.
636	Base	DF	2011	0.0	0.0	68.1	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	n.d.	n.d.
637	n.d.	DF	2011	0.0	0.0	2.0	12.5	0.0	0.0	0.0	0.0	0.0	6.6	0.4	0.0	n.d.	n.d.
638	n.d.	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.4	0.0	1.4	high
639	Base	DF	2011	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	69.8	5.3	3.9	13.1	low
640	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.6	5.3	4.1	13.5	low
641	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.1	6.1	4.5	15.3	low
642	Base	DF	2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.4	4.9	3.8	13.6	low

Base : freebase; HCl: Hydrochloride; n.d: not determined; SP: São Paulo State; BA: Bahia State; GO: Goiás State; AC: Acre State and DF: Distrito Federal.

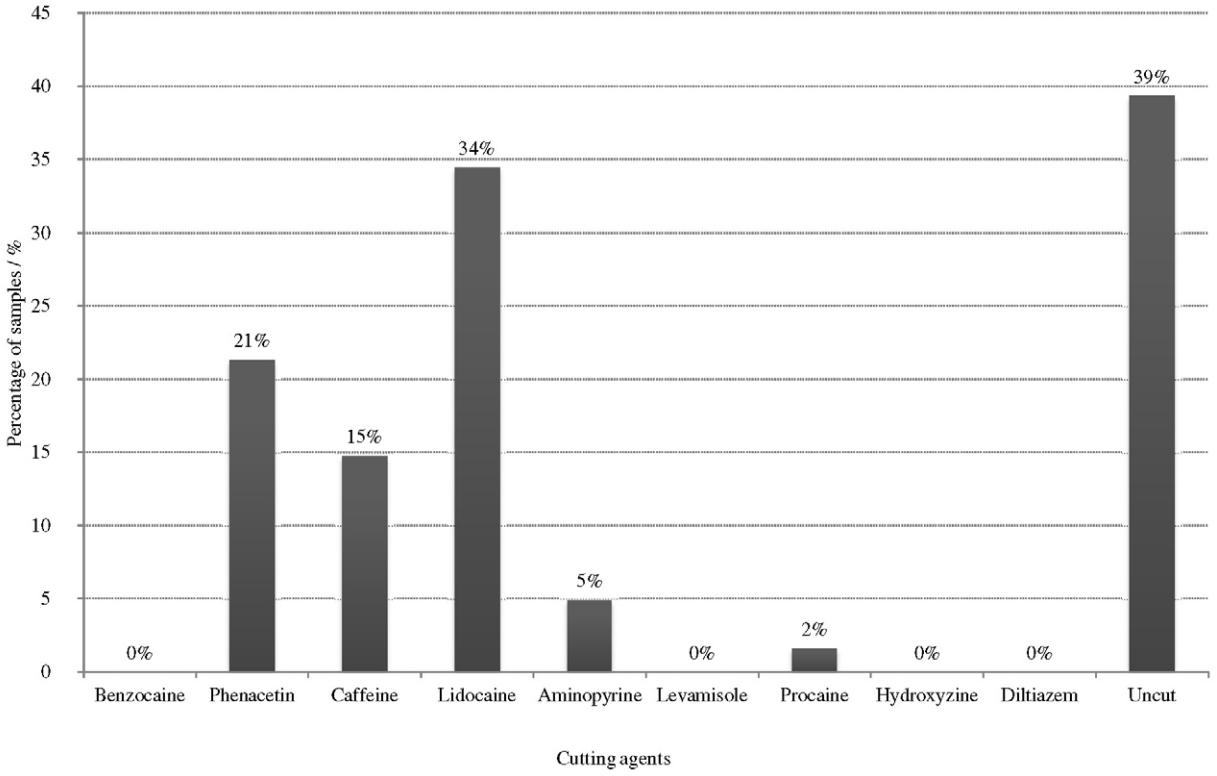

Figure S2. Presence of cutting agents in samples of Acre State (AC).

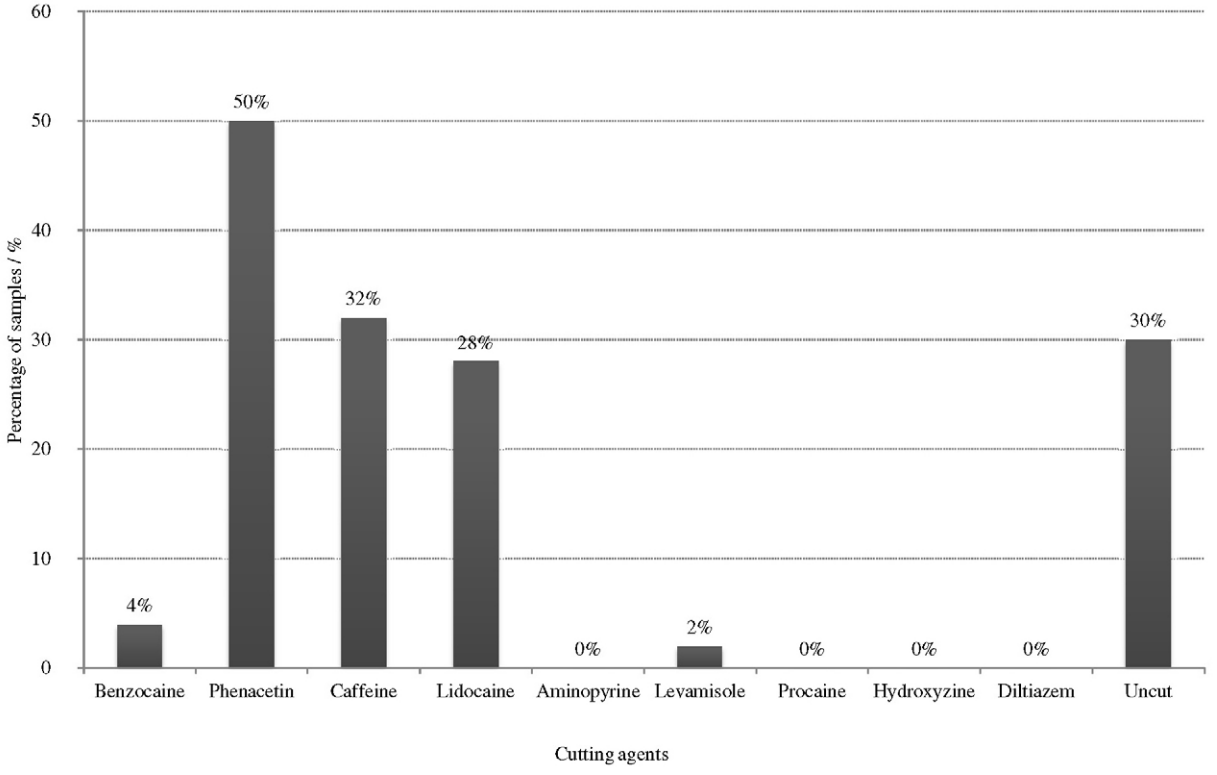

Figure S3. Presence of cutting agents in samples of Bahia State (BA).

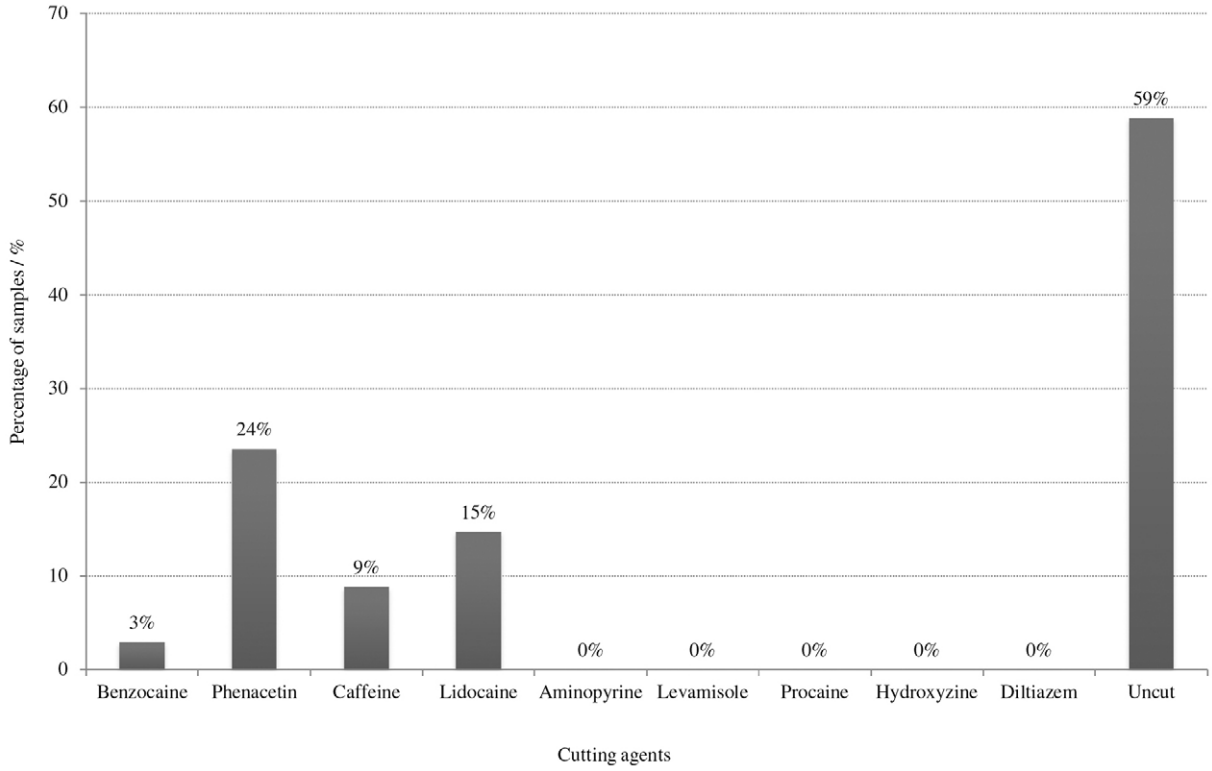

Figure S4. Presence of cutting agents in samples of Distrito Federal (DF).

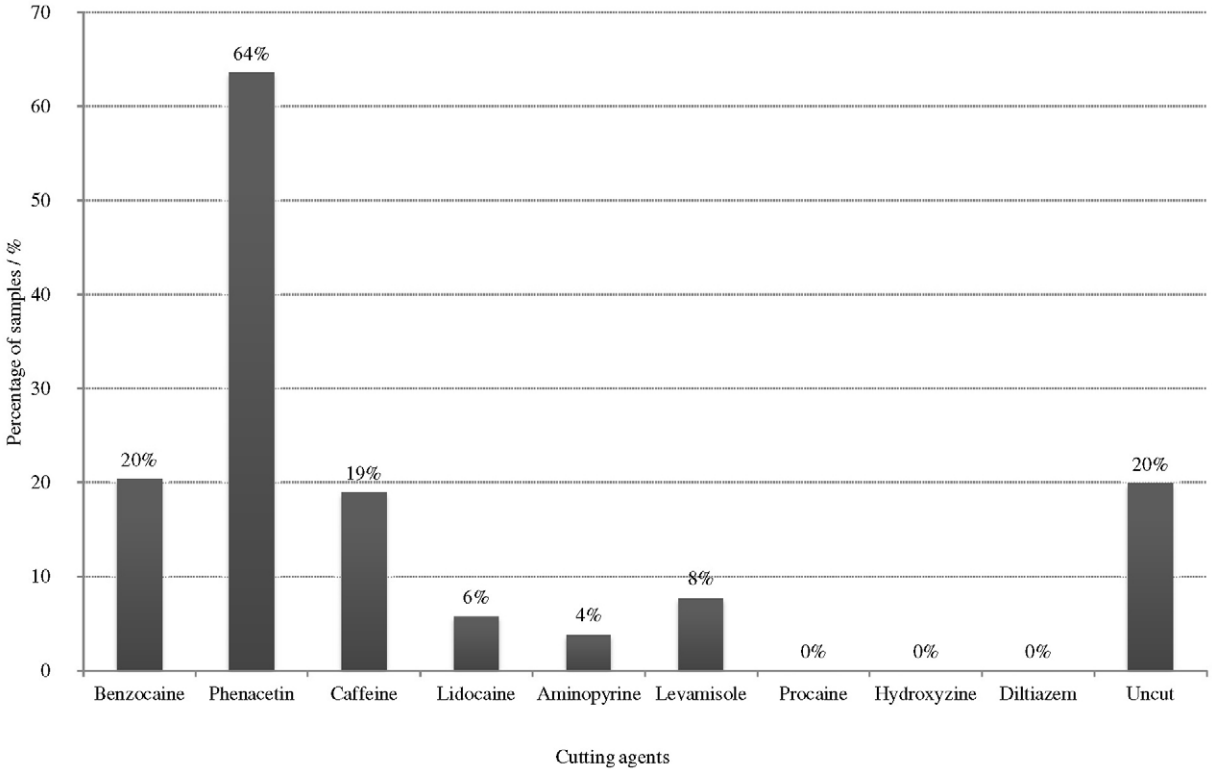

Figure S5. Presence of cutting agents in samples ofGoiás State (GO).

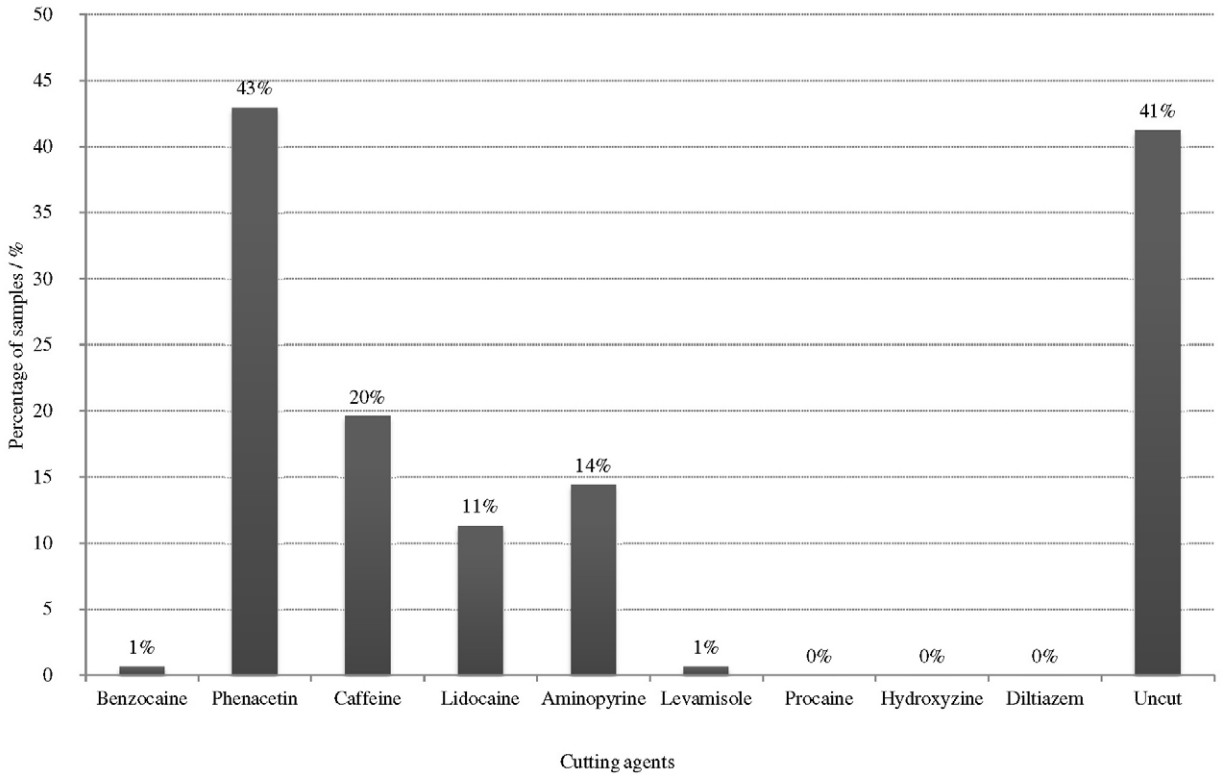

Figure S6. Presence of cutting agents in samples of São Paulo State (SP).

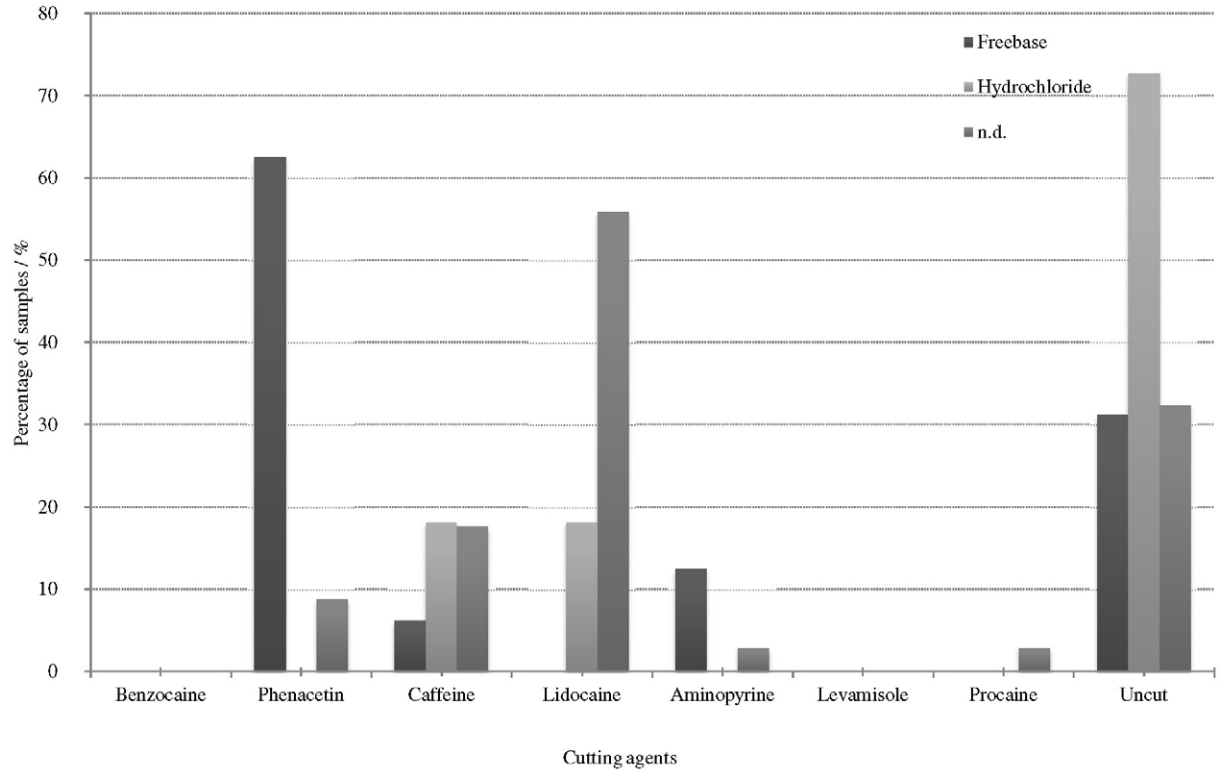

Figure S7. Presence of cutting agents in different forms of presentation in samples of Acre State (AC).

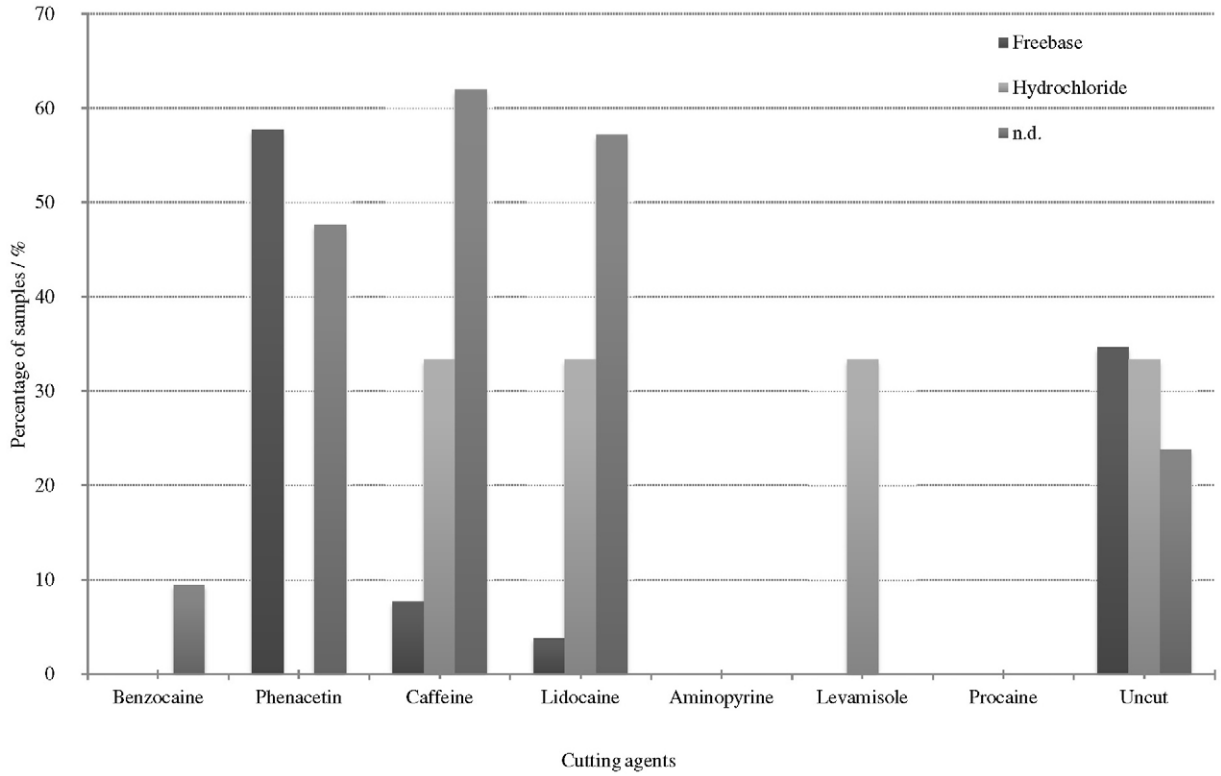

Figure S8. Presence of cutting agents in different forms of presentation in samples of Bahia State (BA).

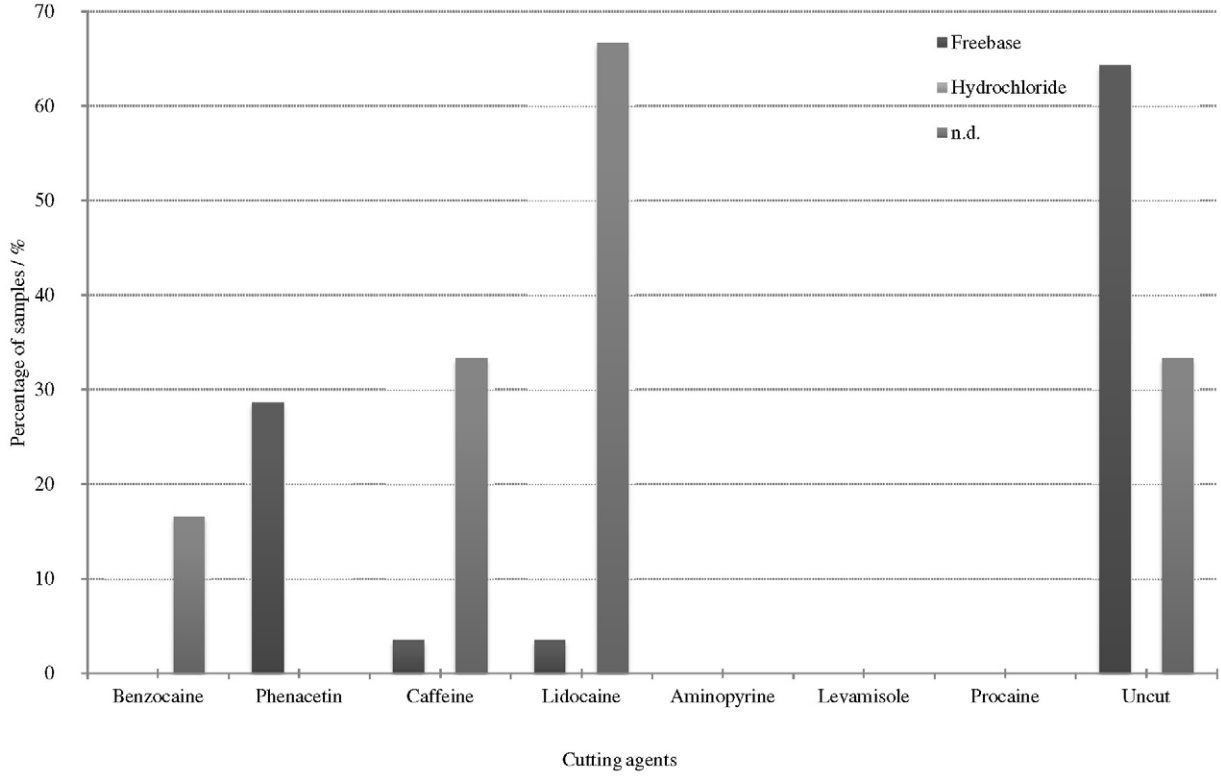

Figure S9. Presence of cutting agents in different forms of presentation in samples of Distrito Federal (DF).

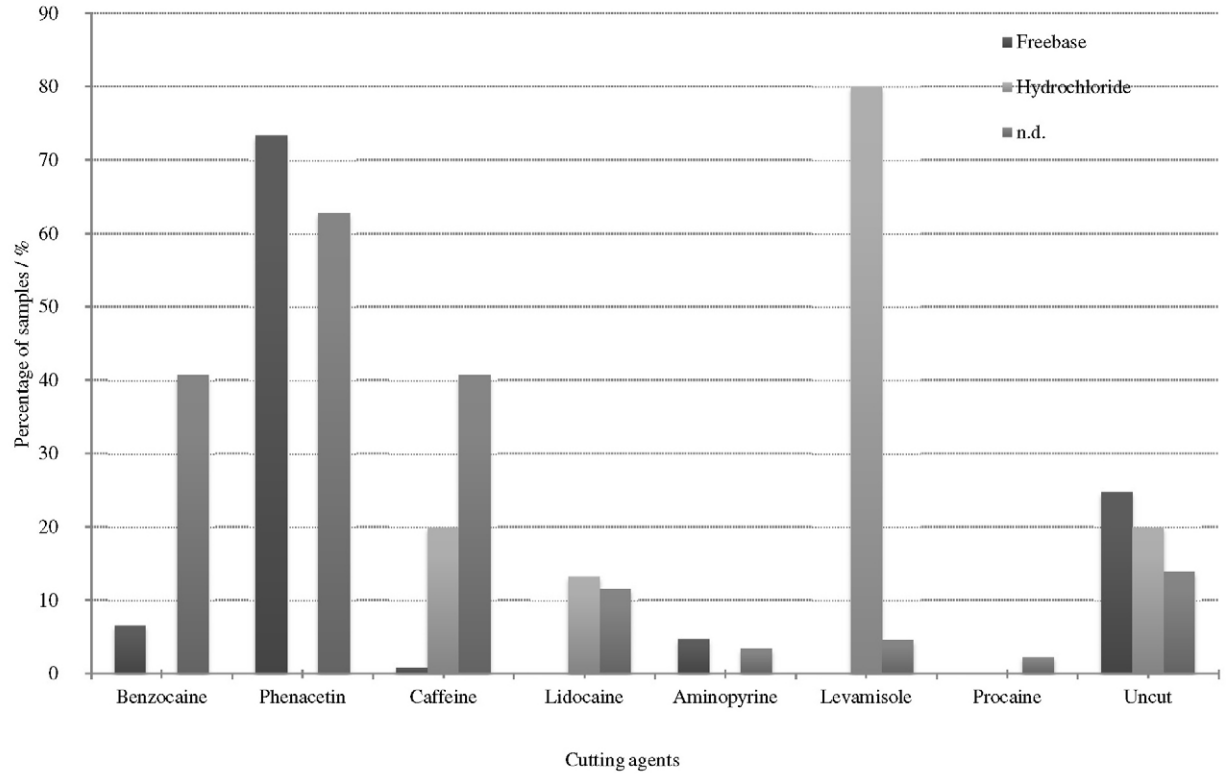

Figure S10. Presence of cutting agents in different forms of presentation in samples of Goiás State (GO).

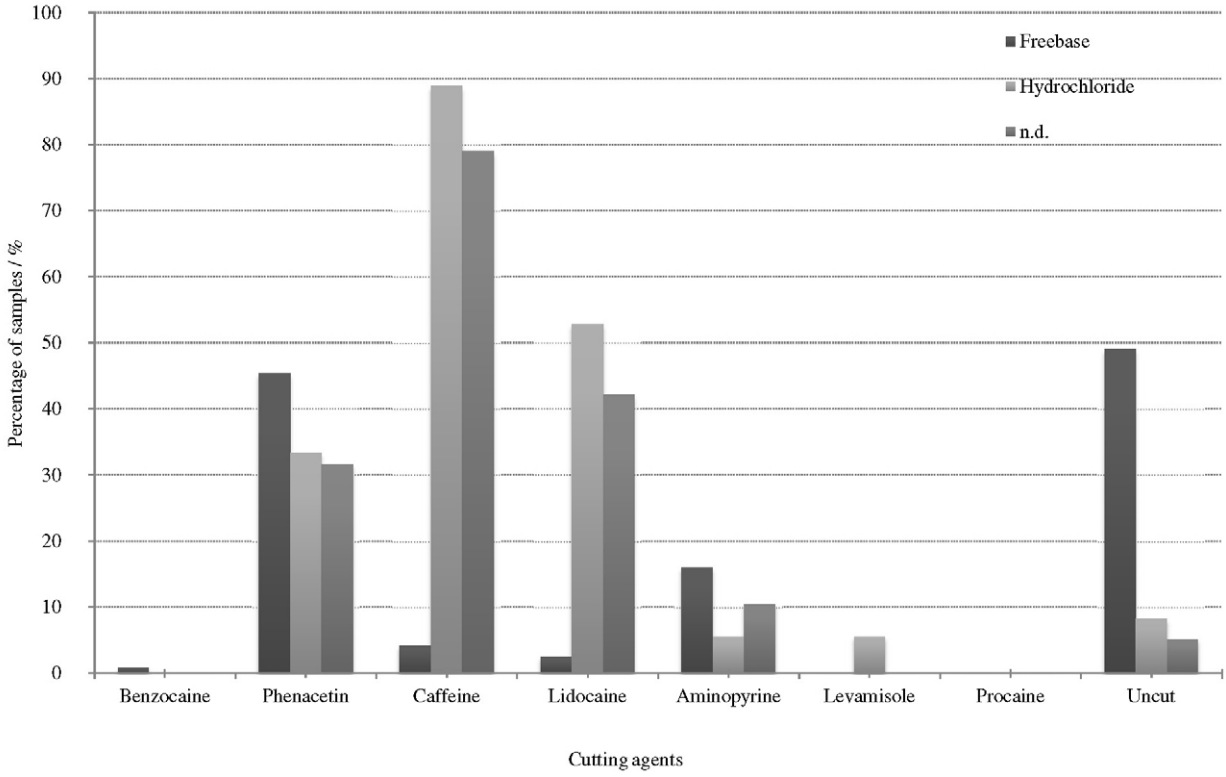

Figure S11. Presence of cutting agents in different forms of presentation in samples of São Paulo State (SP).

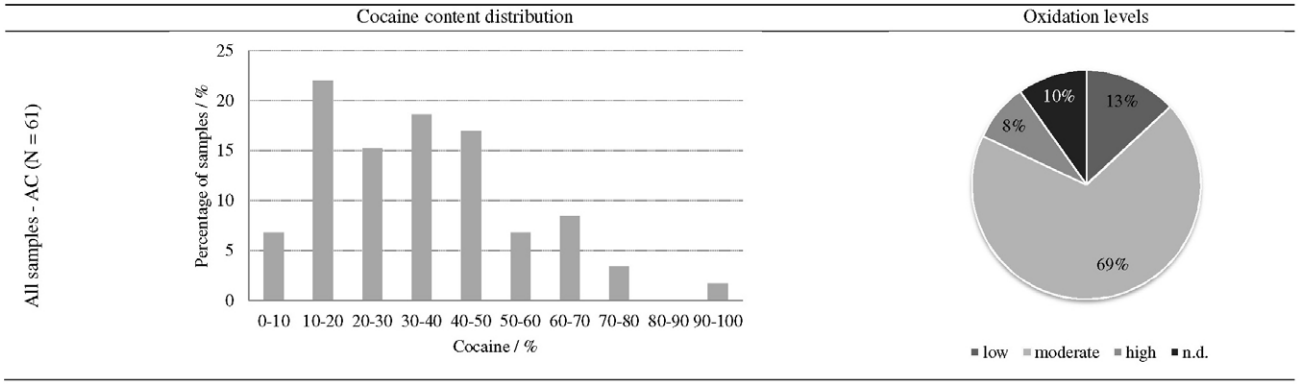

Figure S12. Histogram of cocaine content distribution and oxidation levels of samples of Acre State (AC).

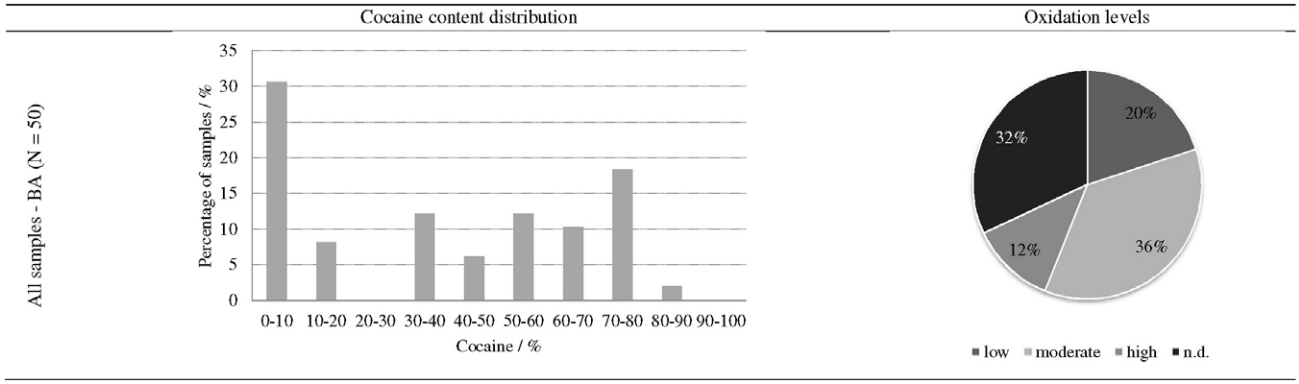

Figure S13. Histogram of cocaine content distribution and oxidation levels of samples of Bahia State (BA).

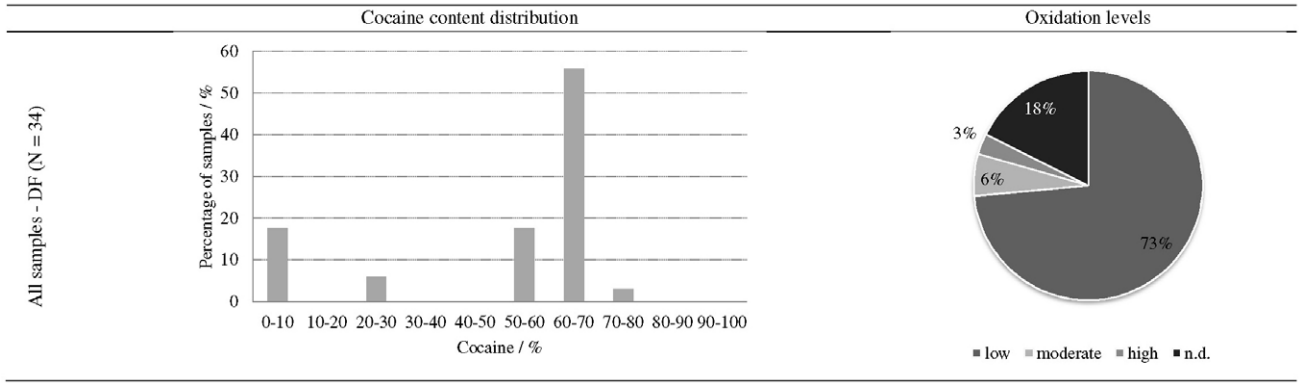

Figure S14. Histogram of cocaine content distribution and oxidation levels of samples of Distrito Federal (DF).

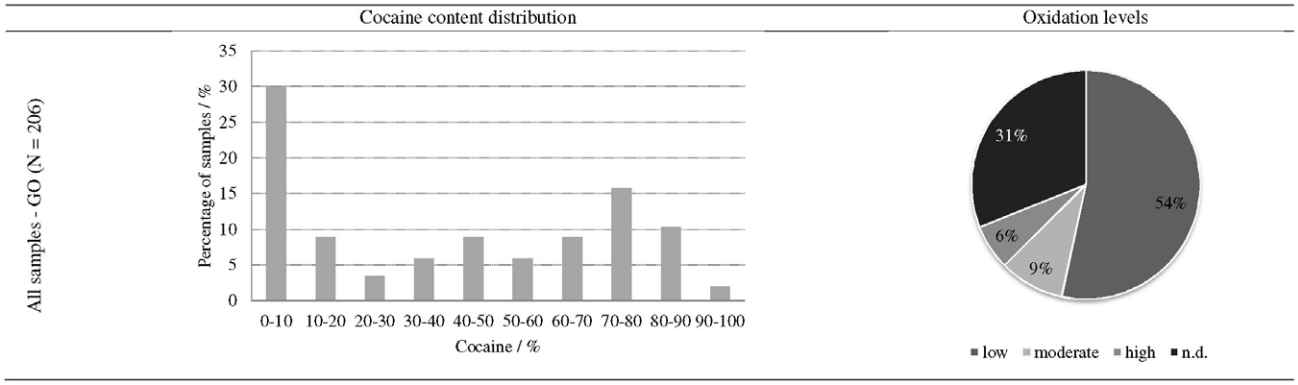

Figure S15. Histogram of cocaine content distribution and oxidation levels of samples of Goiás State (GO).

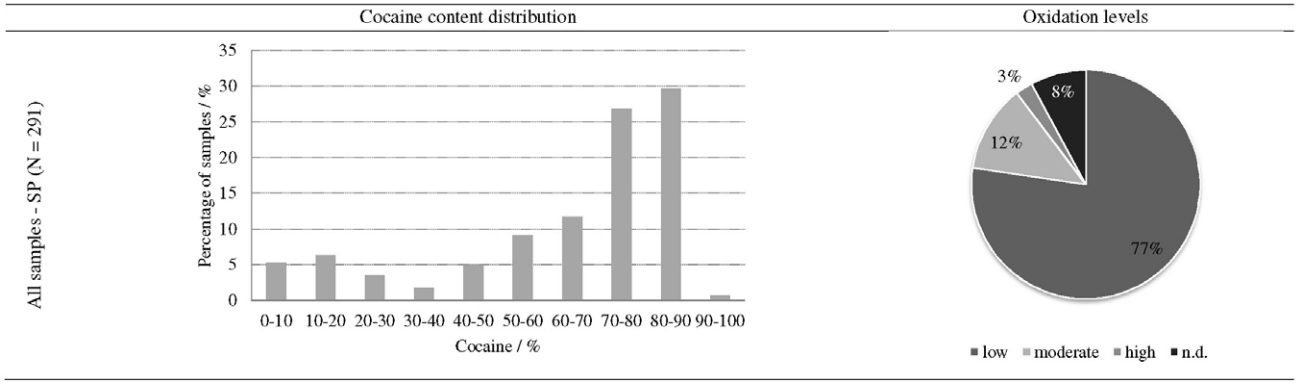

Figure S16. Histogram of cocaine content distribution and oxidation levels of samples of São Paulo State (SP).