

Table S1. Biogenic amines content (mg/L)^a in white wines from the Central European region.

Number	Wine	Biogenic amines content **						
		HIS	TYM	PUT	CAD	PEA	SPD	SPN
1	Aurelius	ND *	2.4a±0.1	ND	ND	ND	ND	5.4b±0.3
2	Děvín	ND	4.1a±0.2	ND	ND	ND	ND	12.9b±0.6
3	Hibernal	ND	1.9a±0.1	ND	ND	ND	ND	5.1b±0.2
4	Chardonnay	ND	6.7a±0.3	7.4a±0.4	ND	ND	ND	6.8a±0.3
5	Chardonnay	ND	3.3a±0.2	ND	ND	ND	ND	7.9b±0.4
6	Chardonnay	0.7a±0.0	2.8b±0.2	ND	ND	ND	ND	6.8c±0.3
7	Chardonnay	ND	1.7a±0.1	ND	ND	ND	ND	5.1b±0.3
8	Chardonnay	ND	2.5a±0.1	5.7b±0.2	0.4c±0.1	ND	0.1d±0.1	3.8e±0.1
9	Chardonnay	ND	5.5a±0.2	3.9b±0.2	ND	0.7c±0.1	ND	4.4d±0.2
10	Chardonnay	ND	1.8a±0.1	1.3b±0.1	ND	0.5c±0.1	ND	2.8d±0.1
11	Chardonnay	ND	16.4a±0.8	0.9b±0.1	0.4c±0.1	0.2c±0.1	ND	0.9b±0.1
12	Chardonnay	ND	3.5a±0.2	ND	ND	ND	ND	3.3a±0.1
13	Chardonnay	ND	0.7a±0.1	ND	ND	ND	ND	3.5b±0.1
14	Chardonnay	ND	0.2a±0.1	ND	ND	ND	ND	3.5b±0.1
15	Chardonnay	ND	0.2a±0.1	ND	ND	ND	ND	2.5b±0.1
16	Chardonnay	ND	0.1a±0.1	ND	ND	ND	ND	1.5b±0.1
17	Chardonnay	ND	0.5a±0.1	ND	ND	5.1b±0.2	ND	5.3b±0.3
18	Irssai Olivér	ND	8.2a±0.3	10.1b±0.4	ND	ND	ND	5.4c±0.3
19	Johanniter	ND	1.8a±0.1	ND	ND	ND	ND	5.6b±0.3
20	Neuburg and Veltliner Green	ND	3.2a±0.2	ND	1.0b±0.1	ND	ND	5.3c ± 0.2
21	Pinot Blanc and Chardonnay	1.0a±0.1	22.8b±1.2	ND	ND	1.4c±0.1	ND	4.3d±0.2
22	Sauvignon Blanc and Traminer	ND	2.0a±0.1	ND	0.7b±0.1	ND	ND	4.6c±0.2
23	Veltliner Red and Riesling Italico	ND	3.7a±0.2	ND	ND	ND	ND	7.4b±0.3

24	Moravian Muscat and Veltliner Green	ND	2.4a±0.1	30.4b±1.5	ND	ND	ND	ND
25	Moravian Muscat and Veltliner Green	ND	ND	ND	ND	ND	ND	7.3a±0.3
26	Moravian Muscat	ND	ND	ND	ND	ND	ND	2.4a±0.1
27	Moravian Muscat	ND	2.1a±0.1	ND	ND	ND	ND	3.4b±0.1
28	Moravian Muscat	ND	4.1a±0.2	ND	ND	ND	ND	ND
29	Moravian Muscat	ND	2.4a±0.1	ND	ND	ND	ND	5.9b±0.3
30	Moravian Muscat	ND	2.9a±0.1	ND	ND	ND	ND	11.0b±0.4
31	Muller Thurgau	ND	1.8a±0.1	ND	ND	ND	ND	8.1b±0.4
32	Muller Thurgau	ND	3.7a±0.2	6.1b±0.3	ND	ND	ND	5.4c±0.2
33	Muller Thurgau	ND	1.3a±0.1	1.7b±0.1	ND	ND	1.3a±0.1	3.9c±0.2
34	Muller Thurgau	ND	3.9a±0.2	ND	ND	ND	ND	8.4b±0.4
35	Muller Thurgau	ND	2.4a±0.1	ND	ND	ND	ND	5.8b±0.3
36	Muller Thurgau	ND	1.6a±0.1	ND	1.3b±0.1	ND	ND	5.5c±0.3
37	Muller Thurgau	1.8a±0.1	7.0b±0.4	12.7c±0.6	1.1d±0.1	ND	ND	4.3e±0.2
38	Muller Thurgau	ND	2.7a±0.1	ND	ND	ND	ND	11.9b±0.6
39	Muller Thurgau	ND	2.1a±0.1	ND	ND	ND	ND	6.0b±0.3
40	Muller Thurgau	ND	3.0a±0.2	ND	ND	ND	ND	7.4b±0.4
41	Muscat Ottonel	2.8a±0.2	1.7b±0.1	23.2c±1.0	ND	2.3d±0.1	ND	6.2e±0.3
42	Neuburger	ND	ND	ND	ND	ND	1.0a±0.1	3.9b±0.2
43	Neuburger	ND	1.7a±0.1	ND	ND	ND	ND	ND
44	Neuburger	ND	6.2a±0.3	ND	ND	2.9b±0.1	ND	6.8a±0.4
45	Neuburger	ND	2.2a±0.1	ND	3.1b±0.2	3.1b±0.2	ND	6.1c±0.3
46	Neuburger	ND	1.8a±0.1	ND	ND	ND	ND	5.7b±0.3
47	Pálava	ND	5.2a±0.3	10.2b±0.4	1.7c±0.1	ND	ND	5.3a ± 0.2
48	Pálava	ND	4.7a±0.2	ND	ND	2.5b±0.1	ND	ND
49	Pálava	ND	4.3a ±0.2	ND	ND	ND	ND	8.2b ± 0.4
50	Pinot Blanc	ND	ND	ND	ND	ND	ND	6.2a±0.3
51	Pinot Blanc	ND	34.6a±1.8	ND	ND	ND	ND	ND
52	Pinot Blanc	ND	3.2a±0.1	2.7b±0.1	0.8c±0.1	1.2d±0.1	ND	4.7e±0.2
53	Pinot Blanc	ND	2.4a±0.1	1.6b±0.1	0.8c±0.1	0.3d±0.1	ND	4.1e±0.2

54	Pinot Blanc	ND	1.3a±0.1	1.3a±0.1	0.6b±0.1	0.1c±0.1	ND	1.7d±0.1
55	Pinot Blanc	ND	1.2a±0.1	5.1b±0.2	ND	3.7c±0.1	ND	4.9b±0.2
56	Pinot Blanc	ND	0.2a±0.1	ND	ND	ND	ND	3.3b±0.1
57	Pinot Blanc	ND	0.2a±0.1	ND	ND	ND	ND	3.4b±0.1
58	Pinot Gris	2.7a±0.2	8.3b±0.3	9.1b±0.5	ND	ND	ND	4.1c±0.2
59	Pinot Gris	ND	3.6a±0.2	4.4b±0.2	1.9c±0.1	ND	1.4d±0.1	7.9e±0.4
60	Pinot Gris	2.3a±0.1	7.3b±0.3	16.2c±0.9	ND	ND	ND	5.0d±0.3
61	Pinot Gris	ND	3.5a±0.2	ND	ND	ND	ND	7.2b±0.3
62	Pinot Gris	ND	1.4a±0.1	ND	ND	ND	ND	6.2b±0.3
63	Pinot Gris	ND	ND	3.8a±0.2	0.4b±0.0	ND	1.7c±0.1	3.6a±0.1
64	Pinot Gris	ND	2.8a±0.1	ND	ND	1.2b±0.1	ND	2.8a±0.1
65	Pinot Gris	ND	1.6a±0.1	1.9b±0.1	ND	0.3c±0.1	ND	4.5d±0.2
66	Pinot Gris	ND	1.4a±0.1	0.7b±0.1	0.8b±0.1	0.7b±0.1	ND	1.5a±0.1
67	Pinot Gris	ND	15.8a±0.7	1.9b±0.1	0.4c±0.1	0.7d±0.1	ND	5.8e±0.3
68	Pinot Gris	ND	1.2a±0.1	1.4a±0.1	0.4b±0.1	ND	ND	1.8c±0.1
69	Pinot Gris	ND	2.6a±0.1	2.0b±0.1	ND	ND	ND	2.7a±0.1
70	Pinot Gris	ND	0.1a±0.1	ND	ND	ND	ND	1.7b±0.1
71	Pinot Gris	ND	0.1a±0.1	ND	ND	ND	ND	2.1b±0.1
72	Pinot Gris	ND	0.1a±0.1	ND	ND	ND	ND	3.4b±0.1
73	Pinot Gris	ND	1.2a±0.1	ND	ND	ND	ND	5.3b±0.2
74	Pinot Gris	ND	0.7a±0.1	ND	ND	ND	ND	2.5b±0.1
75	Pinot Gris	ND	1.5a±0.1	ND	ND	4.4b±0.2	ND	3.7c±0.1
76	Pinot Gris	ND	2.2a±0.1	ND	ND	5.9b±0.3	ND	6.4b±0.2
77	Riesling Italico	ND	1.4a±0.1	4.7b±0.3	ND	ND	1.7c±0.1	4.9a±0.3
78	Riesling Italico	0.9a±0.1	3.0b±0.1	6.3c±0.4	1.1a±0.1	ND	ND	4.2d±0.2
79	Riesling Italico	ND	3.8a±0.2	ND	ND	ND	ND	10.3b±0.5
80	Riesling Italico	ND	4.3a±0.2	ND	ND	ND	ND	10.1b±0.5
81	Riesling Italico	ND	1.5a±0.1	2.5b±0.1	ND	ND	ND	4.9c±0.3
82	Riesling Italico	ND	3.3a±0.2	ND	ND	ND	ND	4.7b±0.3
83	Riesling Italico	ND	3.4a±0.1	4.4b±0.2	ND	ND	ND	2.2c±0.1
84	Riesling Italico	ND	1.0a±0.1	1.9b±0.1	0.5c±0.1	ND	ND	1.9b±0.1
85	Riesling Italico	ND	3.1a±0.1	1.1b±0.1	1.3c±0.1	ND	ND	3.5d±0.1

86	Riesling Italico	ND	0.2a±0.1	ND	ND	1.8b±0.1	ND	1.6b±0.1
87	Riesling Italico	1.8a±0.1	0.9b±0.1	ND	ND	1.7a±0.1	ND	2.3c±0.1
88	Riesling Italico	ND	2.4a±0.1	ND	ND	6.4b±0.3	ND	4.9c±0.2
89	Riesling Weisser	ND	4.8a±0.2	ND	ND	ND	ND	3.9b±0.2
90	Riesling Weisser	ND	2.5a±0.1	ND	ND	ND	ND	8.6b±0.4
91	Riesling Weisser	ND	1.9a±0.1	ND	ND	ND	ND	5.3b±0.3
92	Riesling Weisser	ND	3.6a±0.2	ND	ND	ND	ND	6.6b±0.4
93	Riesling Weisser	1.7a±0.1	9.6b±0.5	9.7b±0.5	1.1c±0.1	ND	ND	6.1d±0.3
94	Riesling Weisser	ND	12.7a±0.6	ND	ND	ND	ND	10.8b±0.5
95	Riesling Weisser	ND	2.2a±0.1	ND	ND	ND	ND	8.1b±0.4
96	Riesling Weisser	ND	3.1a±0.1	ND	ND	ND	ND	7.7b±0.4
97	Riesling Weisser	ND	7.6a±0.3	1.6b±0.1	1.5b±0.1	0.5c±0.1	ND	4.3d±0.2
98	Riesling Weisser	ND	5.4a±0.2	2.5b±0.1	ND	ND	ND	4.2c±0.2
99	Riesling Weisser	ND	4.1a±0.2	1.1b±0.1	0.5c±0.1	0.6c±0.1	ND	1.8d±0.1
100	Riesling Weisser	ND	2.7a±0.1	0.6b±0.1	0.7b±0.1	ND	ND	2.2c±0.1
101	Riesling Weisser	ND	1.8a±0.1	3.6b±0.1	0.5c±0.1	0.5c±0.1	ND	3.6b±0.2
102	Riesling Weisser	ND	3.5a±0.2	1.6b±0.1	ND	0.6c±0.1	ND	1.7b±0.1
103	Riesling Weisser	ND	2.6a±0.1	ND	ND	ND	ND	2.4a±0.1
104	Riesling Weisser	ND	1.3a±0.1	3.5b±0.1	ND	ND	ND	5.9c±0.2
105	Riesling Weisser	ND	ND	ND	ND	ND	ND	ND
106	Riesling Weisser	ND	0.2a±0.1	ND	ND	ND	ND	4.4b±0.2
107	Riesling Weisser	ND	0.3a0.1	ND	ND	ND	ND	5.8b±0.3
108	Riesling Weisser	ND	0.2a±0.1	ND	ND	ND	ND	1.7b±0.1
109	Riesling Weisser	ND	0.5a±0.1	ND	ND	2.8b±0.1	ND	2.9b±0.1
110	Riesling Weisser	ND	0.4a±0.1	ND	ND	ND	ND	5.9b±0.3
111	Sauvignon Blanc	4.5a±0.2	11.0b±0.5	11.3b±0.6	ND	1.5c±0.1	ND	6.6d±0.3
112	Sauvignon Blanc	ND	ND	ND	ND	ND	ND	2.0a±0.1
113	Sauvignon Blanc	ND	ND	2.8a±0.2	ND	ND	1.0b±0.1	2.5a±0.1
114	Sauvignon Blanc	ND	2.7a±0.1	ND	ND	ND	ND	ND
115	Sauvignon Blanc	ND	1.2a±0.1	ND	1.1a±0.1	ND	ND	4.3b±0.2
116	Sauvignon Blanc	ND	2.6a±0.1	ND	ND	ND	ND	5.4b±0.2
117	Sauvignon Blanc	ND	ND	2.1a±0.1	0.9b±0.1	ND	3.4c±0.1	2.5d±0.1

118	Sauvignon Blanc	ND	2.5a±0.1	2.0b±0.1	ND	ND	ND	4.8c±0.2
119	Sauvignon Blanc	ND	6.6a±0.3	3.7b±0.1	0.8c±0.1	0.6c±0.1	ND	5.4d±0.2
120	Sauvignon Blanc	ND	1.8a±0.1	1.6a±0.1	ND	0.5b±0.1	ND	3.4c±0.2
121	Sauvignon Blanc	ND	2.6a±0.1	2.6a±0.1	0.5b±0.1	1.0c±0.1	ND	5.3d±0.2
122	Sauvignon Blanc	ND	6.9a±0.3	1.5b±0.1	0.4c±0.1	0.2c±0.1	ND	1.7b±0.1
123	Sauvignon Blanc	ND	2.4a±0.1	ND	ND	ND	ND	4.7b±0.2
124	Sauvignon Blanc	ND	2.8a±0.1	1.7b±0.1	ND	ND	ND	3.3c±0.1
125	Sauvignon Blanc	ND	8.8a±0.4	1.7b±0.1	ND	1.4c±0.1	ND	2.4d±0.1
126	Sauvignon Blanc	ND	0.9a±0.1	ND	ND	ND	ND	2.8b±0.1
127	Sauvignon Blanc	ND	0.6a±0.1	ND	ND	ND	ND	3.2b±0.1
128	Sauvignon Blanc	ND	0.2a±0.1	ND	ND	0.8b±0.1	ND	1.1c±0.1
129	Sauvignon Blanc	ND	0.1a±0.1	ND	ND	ND	ND	1.2b±0.1
130	Sauvignon Blanc	ND	0.3a±0.1	ND	ND	ND	ND	3.8b±0.2
131	Sauvignon Blanc	ND	0.1a±0.1	ND	ND	ND	ND	1.3b±0.1
132	Sauvignon Blanc	ND	0.1a±0.1	ND	ND	ND	ND	2.3b±0.1
133	Sauvignon Blanc	ND	0.4a±0.1	ND	ND	ND	ND	1.9b±0.1
134	Sauvignon Blanc	ND	0.1a±0.1	ND	ND	ND	ND	2.2b±0.1
135	Sauvignon Blanc	ND	0.6a±0.1	ND	ND	6.3b±0.2	ND	6.9c±0.3
136	Sauvignon Blanc	ND	0.6a±0.1	ND	ND	ND	ND	5.9b±0.3
137	Solaris	ND	ND	ND	ND	ND	ND	4.1±0.2
138	Sylvaner	ND	3.7a±0.2	ND	ND	ND	1.1b±0.0	3.2c±0.1
139	Sylvaner	ND	3.2a±0.2	ND	ND	ND	ND	6.7b±0.3
140	Tramini	ND	2.8a±0.1	5.6b±0.3	ND	ND	ND	4.3c±0.3
141	Tramini	ND	9.2a±0.4	5.1b±0.2	ND	1.5c±0.1	ND	7.9d±0.4
142	Tramini	ND	10.0a±0.5	9.4a±0.5	ND	3.9b±0.2	ND	9.2a±0.5
143	Tramini	ND	3.8a±0.2	ND	ND	ND	ND	11.9b±0.6
144	Tramini	ND	1.6a±0.1	3.6b±0.16	0.7c±0.1	ND	ND	2.7d±0.1
145	Tramini	ND	0.6a±0.1	2.2b±0.11	0.6a±0.1	ND	ND	2.2b±0.1
146	Tramini	ND	3.1a±0.1	ND	ND	ND	ND	1.9b±0.1
147	Tramini	ND	0.6a±0.1	4.8b±0.25	ND	ND	ND	2.1c±0.1
148	Tramini	ND	2.0a±0.1	3.8b±0.20	ND	1.0c±0.1	ND	2.9d±0.1
149	Tramini	ND	0.5a±0.1	2.2b±0.14	ND	ND	ND	4.2c±0.2

150	Tramini	ND	0.2a±0.1	ND	ND	ND	ND	2.6±0.1
151	Tramini	ND	0.8a±0.1	ND	ND	ND	ND	1.4±0.1
152	Tramini	ND	0.6a±0.1	ND	ND	2.1b±0.1	ND	3.7c±0.2
153	Tramini	ND	0.4a±0.1	ND	ND	ND	ND	7.3b±0.3
154	Veltliner Green	ND	1.7a±0.1	4.1b±0.2	ND	ND	ND	5.8c±0.3
155	Veltliner Green	ND	ND	ND	ND	ND	1.3a±0.1	3.4b±0.2
156	Veltliner Green	ND	3.4a±0.2	5.8b±0.3	ND	ND	ND	5.7b±0.2
157	Veltliner Green	ND	2.5a±0.1	ND	ND	ND	ND	7.9b±0.5
158	Veltliner Green	ND	1.8a±0.1	ND	ND	ND	ND	5.5b±0.3
159	Veltliner Green	ND	6.7a±0.3	9.2b±0.5	ND	ND	ND	10.0c±0.5
160	Veltliner Green	ND	4.2a±0.2	ND	1.5b±0.1	ND	ND	11.2c±0.7
161	Veltliner Green	ND	ND	ND	ND	ND	0.7a±0.0	2.0b±0.1
162	Veltliner Green	ND	1.5a±0.1	2.2b±0.1	0.3c±0.1	1.0d±0.1	0.4c±0.1	3.0e±0.1
163	Veltliner Green	ND	5.4a±0.2	2.4b±0.1	ND	ND	ND	5.9c±0.2
164	Veltliner Green	ND	1.6a±0.1	1.3b±0.1	ND	0.6c±0.1	ND	1.1b±0.1
165	Veltliner Green	ND	1.4a±0.1	1.7b±0.1	0.4c±0.1	ND	ND	4.4d±0.2
166	Veltliner Green	ND	0.9a±0.1	0.9a±0.1	0.7a±0.1	1.2b±0.1	ND	1.9c±0.1
167	Veltliner Green	ND	0.5a±0.1	4.1b±0.1	ND	ND	ND	1.9c±0.1
168	Veltliner Green	ND	1.4a±0.1	1.4a±0.1	ND	ND	ND	4.8b±0.2
169	Veltliner Green	ND	12.3a±0.6	1.3b±0.1	ND	0.6c±0.1	ND	2.6d±0.1
170	Veltliner Green	ND	10.5a±0.5	1.7b±0.1	0.4c±0.1	0.8d±0.1	ND	2.4e±0.1
171	Veltliner Green	ND	0.6a±0.1	ND	ND	ND	ND	2.6b±0.1
172	Veltliner Green	ND	0.5a±0.1	3.2b±0.1	ND	2.5c±0.1	ND	6.6d±0.3
173	Veltliner Green	ND	0.1a±0.1	ND	ND	ND	ND	1.0b±0.1
174	Veltliner Green	ND	ND	ND	ND	ND	ND	ND
175	Veltliner Green	ND	ND	ND	ND	ND	ND	ND
176	Veltliner Green	ND	0.1a±0.1	ND	ND	ND	ND	2.0b±0.1
177	Veltliner Green	ND	0.6a±0.1	ND	ND	ND	ND	1.1b±0.1
178	Veltliner Green	ND	1.5a±0.1	ND	ND	1.4a±0.1	ND	6.3b±0.3
179	Veltliner Green	ND	0.7a±0.1	ND	ND	3.0b±0.1	ND	5.9c±0.2
180	Veltliner Green	ND	0.4a±0.1	ND	ND	3.7b±0.1	ND	3.1c±0.1

* ND – not detected

** HIS: histamine; TYR: tyramine; PUT: putrescine; CAD: cadaverine; PHE: phenylethylamine; SPD: spermidine; SPM: spermine

^a The values are expressed as mean \pm standard deviation. The mean values within a line (the difference between individual BA) followed by different letters differ ($p < 0.05$).

Table S2. Biogenic amines content (mg/L)^a in rosé wines from the Central European region.

Number	Wine	Biogenic amines content**						
		HIS	TYM	PUT	CAD	PEA	SPD	SPN
1	André	ND*	5.5a \pm 0.3	ND	ND	ND	ND	10.5b \pm 0.5
2	Blaifränkisch	ND	8.5a \pm 0.4	5.5b \pm 0.3	ND	ND	ND	6.3c \pm 0.3
3	Blaifränkisch	ND	3.9a \pm 0.1	ND	ND	ND	ND	8.9b \pm 0.5
4	Blaifränkisch	ND	ND	ND	0.6a \pm 0.1	ND	ND	ND
5	Blaifränkisch	ND	3.6a \pm 0.2	ND	0.7b \pm 0.1	1.1c \pm 0.0	ND	6.1d \pm 0.3
6	Blaifränkisch	ND	5.3a \pm 0.2	ND	ND	ND	ND	5.8b \pm 0.3
7	Blaifränkisch	ND	1.5a \pm 0.1	ND	ND	ND	ND	5.6b \pm 0.3
8	Cabernet Sauvignon	ND	ND	ND	0.7a \pm 0.1	ND	ND	ND
9	Merlot	ND	3.1a \pm 0.2	ND	ND	2.2b \pm 0.1	ND	6.8c \pm 0.3
10	André and Blaifränkisch	2.9a \pm 0.2	3.1a \pm 0.2	ND	ND	ND	ND	6.7b \pm 0.3
11	Pinot noir	ND	ND	ND	ND	ND	ND	3.9a \pm 0.2
12	Portugieser. Blauer	ND	1.1a \pm 0.1	ND	ND	ND	ND	3.8b \pm 0.2
13	Portugieser. Blauer	1.8a \pm 0.1	3.4b \pm 0.2	ND	ND	ND	ND	2.5c \pm 0.1
14	Saint Laurent	ND	0.9a \pm 0.1	ND	ND	ND	ND	6.2b \pm 0.3
15	Zweigelt	ND	ND	ND	ND	ND	ND	4.4a \pm 0.2
16	Zweigelt	ND	2.0a \pm 0.1	ND	ND	ND	ND	4.9b \pm 0.3
17	Zweigelt	ND	9.3a \pm 0.4	ND	ND	ND	ND	7.8b \pm 0.4

* ND – not detected

** HIS: histamine; TYR: tyramine; PUT: putrescine; CAD: cadaverine; PHE: phenylethylamine; SPD: spermidine; SPM: spermine

^a The values are expressed as mean \pm standard deviation. The mean values within a line (the difference between individual BA) followed by different letters differ ($p < 0.05$).

Table S3. Biogenic amines content (mg/L)^a in red wines from Central European region.

Number	Wine	Biogenic amines content**						
		HIS	TYM	PUT	CAD	PEA	SPD	SPN
1	Alibernet	1.2 ^a ±0.1	3.9 ^b ±0.2	5.9 ^c ±0.3	ND*	ND	ND	3.9 ^b ±0.2
2	André	ND	1.7 ^a ±0.1	6.0 ^b ±0.3	ND	ND	ND	3.9 ^c ±0.2
3	André	ND	4.8 ^a ±0.2	ND	0.7 ^b ±0.1	1.4 ^c ±0.1	1.3 ^c ±0.1	5.6 ^d ±0.3
4	André	ND	1.8 ^a ±0.2	ND	ND	ND	ND	6.6 ^b ±0.3
5	André	ND	5.3 ^a ±0.3	ND	ND	ND	ND	11.0 ^b ±0.5
6	Blaufränkisch	ND	3.9 ^a ±0.2	13.0 ^b ±0.7	1.5 ^c ±0.1	1.5 ^c ±0.1	1.1 ^d ±0.1	8.3 ^e ±0.4
7	Blaufränkisch	1.4 ^a ±0.1	5.1 ^b ±0.2	14.3 ^c ±0.7	0.8 ^d ±0.1	1.9 ^e ±0.1	0.6 ^d ±0.1	3.2 ^f ±0.1
8	Blaufränkisch	ND	ND	ND	ND	ND	1.2 ^a ±0.1	5.6 ^b ±0.3
9	Blaufränkisch	3.5 ^a ±0.2	11.0 ^b ±0.6	17.1 ^c ±1.0	ND	ND	ND	6.1 ^d ±0.3
10	Blaufränkisch	3.0 ^a ±0.1	1.7 ^b ±0.1	39.2 ^c ±2.1	ND	ND	ND	3.0 ^e ±0.1
11	Cabernet Sauvignon	ND	4.5 ^a ±0.2	6.7 ^b ±0.3	ND	ND	ND	9.2 ^c ±0.4
12	Cabernet Sauvignon	9.6 ^a ±0.4	2.9 ^b ±0.2	6.5 ^c ±0.3	ND	2.3 ^d ±0.1	0.7 ^e ±0.1	3.1 ^b ±0.2
13	Cabernet Sauvignon	ND	ND	ND	ND	ND	ND	ND
14	Dornfelder	ND	4.9 ^a ±0.2	ND	ND	ND	ND	5.5 ^b ±0.3
15	Dornfelder	ND	4.0 ^a ±0.2	8.9 ^b ±0.4	3.9 ^a ±0.2	ND	3.9 ^a ±0.2	9.1 ^b ±0.4
16	Merlot	ND	6.1 ^a ±0.3	11.1 ^b ±0.6	ND	ND	ND	ND
17	Merlot	19.4 ^a ±1.0	ND	272.0 ^b ±12.8	ND	17.8 ^c ±1.1	5.7 ^d ±0.3	ND
18	Merlot	2.7 ^a ±0.1	5.2 ^b ±0.2	13.9 ^c ±0.6	ND	ND	ND	6.8 ^d ±0.4
19	Mixture of Alibernet and Rubinet	11.5 ^a ±0.6	8.5 ^b ±0.5	21.4 ^c ±1.1	ND	ND	ND	3.0 ^d ±0.2
	Mixture of Blaufränkisch and Saint Laurent and Portugieser. Blauer	5.6 ^a ±0.3	9.0 ^b ±0.5	26.6 ^c ±1.2	ND	ND	ND	ND
20	Mixture of Cabernet Moravia and Alibernet	3.0 ^a ±0.2	6.2 ^b ±0.3	12.0 ^c ±0.6	ND	1.5 ^d ±0.1	ND	5.5 ^e ±0.3
21	Pinot noir	ND	18.1 ^a ±0.9	6.6 ^b ±0.3	ND	ND	1.3 ^c ±0.1	6.6 ^b ±0.3
22	Pinot noir	ND	1.3 ^a ±0.1	ND	ND	ND	ND	5.6 ^b ±0.3
23	Portugieser. Blauer	ND	4.9 ^a ±0.2	7.3 ^b ±0.4	1.4 ^c ±0.1	ND	1.6 ^c ±0.1	8.1 ^d ±0.4

25	Portugieser. Blauer	ND	ND	ND	ND	ND	ND	4.8 ^a ±0.3
26	Portugieser. Blauer	ND	1.5 ^a ±0.1	5.1 ^b ±0.2	1.2 ^c ±0.1	ND	ND	4.7 ^b ±0.2
27	Portugieser. Blauer	ND	ND	17.6 ^a ±0.9	ND	ND	ND	6.3 ^b ±0.3
28	Portugieser. Blauer	ND	3.9 ^a ±0.2	ND	ND	ND	ND	10.7 ^b ±0.5
29	Portugieser. Blauer	15.3 ^a ±0.8	16.2 ^a ±0.8	74.0 ^b ±3.8	ND	ND	ND	ND
30	Saint Laurent	ND	3.7 ^a ±0.2	7.1 ^b ±0.4	ND	ND	ND	6.8 ^b ±0.3
31	Saint Laurent	ND	ND	ND	ND	ND	ND	3.9 ^a ±0.2
32	Saint Laurent	1.8 ^a ±0.1	2.0 ^a ±0.1	8.4 ^b ±0.4	ND	ND	6.8 ^c ±0.3	3.5 ^d ±0.2
33	Saint Laurent	2.3 ^a ±0.1	25.9 ^b ±1.3	8.0 ^c ±0.4	ND	ND	ND	5.7 ^d ±0.3
34	Saint Laurent	ND	ND	ND	ND	ND	ND	6.7 ^a ±0.3
35	Zweigelt	ND	1.8 ^a ±0.1	5.1 ^b ±0.2	ND	ND	ND	6.4 ^c ±0.4

* ND – not detected

** HIS: histamine; TYR: tyramine; PUT: putrescine; CAD: cadaverine; PHE: phenylethylamine; SPD: spermidine; SPM: spermine

^a The values are expressed as mean ± standard deviation. The mean values within a line (the difference between individual BA) followed by different letters differ (p < 0.05).