

**Supplementary data related to the article**

Jaćimović, S. – Kiprovska, B. – Sikora, V. – Pezo, L. – Pantelić, N.

**Diversity in nutritional and functional quality of sorghum restorer lines collection**

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**Tab. S1.** Sorghum genotypes within the collection of Institute of Field and Vegetable Crops, Novi Sad, Serbia.

No.	Sample name	Genotype	Collection origin		Grain colour
			Institution	Country	
1	Re1	AK-10-1	Gabonatermesztési Kutató Intézet	Hungary	9
2	Re2	AK 3001	Gabonatermesztési Kutató Intézet	Hungary	3
3	Re5	Combine Milo	Gabonatermesztési Kutató Intézet	Hungary	2
4	Re6	DD Ey Ey Hegary	Gabonatermesztési Kutató Intézet	Hungary	6
5	Re7	DD White Sonner	Gabonatermesztési Kutató Intézet	Hungary	2
7	Re10	28/8221	Gabonatermesztési Kutató Intézet	Hungary	6
8	Re12	25/2221	Gabonatermesztési Kutató Intézet	Hungary	1
9	Re17	KS-54	Gabonatermesztési Kutató Intézet	Hungary	6
10	Re19	KS-27	Gabonatermesztési Kutató Intézet	Hungary	6
11	Re20	Mini hegari	Gabonatermesztési Kutató Intézet	Hungary	2
12	Re23	OKY 8	Oklahoma State University Stillwater	USA	4
13	Re24	OKY 15	Oklahoma State University Stillwater	USA	7
15	Re26	OKY 31	Oklahoma State University Stillwater	USA	6
16	Re31	ROKY 78	Oklahoma State University Stillwater	USA	5
17	Re41	Sze 140	Gabonatermesztési Kutató Intézet	Hungary	7
18	Re43	BR 71	Gabonatermesztési Kutató Intézet	Hungary	8
19	Re44	Sze TC 73	Gabonatermesztési Kutató Intézet	Hungary	8
20	Re45	NK R 310	Gabonatermesztési Kutató Intézet	Hungary	8
22	Re63	Early hegary	Agrobotanikai Kozpont Tápószele	Hungary	1
23	Re61	Heegary B	Agrobotanikai Kozpont Tápószele	Hungary	1
24	Re64	DDY Sooner	Agrobotanikai Kozpont Tápószele	Hungary	5
25	Re65	Redbine	Agrobotanikai Kozpont Tápószele	Hungary	8
26	Re66	Midland	Agrobotanikai Kozpont Tápószele	Hungary	6
27	Re68	Caprock II	Agrobotanikai Kozpont Tápószele	Hungary	6
28	Re69	Early Kalo	Agrobotanikai Kozpont Tápószele	Hungary	8
29	Re75	Red seed Combine	Agrobotanikai Kozpont Tápószele	Hungary	7
30	Re76	DD Ey Ey	Agrobotanikai Kozpont Tápószele	Hungary	2
31	Re77	DD Early Hegary	Agrobotanikai Kozpont Tápószele	Hungary	1
32	Re78	Wai-box hang No 3	Agrobotanikai Kozpont Tápószele	Hungary	3
33	Re86	Kubanskoe Krasnoe 1677	Agrobotanikai Kozpont Tápószele	Hungary	7
34	Re91	IS-50-59	Agrobotanikai Kozpont Tápószele	Hungary	2
35	Re98	IS 9809-1	Ocsa	Hungary	1
36	Re101	RTx 430	Texas A&M University College Station	USA	1
37	Re102	RTx 432	Texas A&M University College Station	USA	6
38	Re105	SCO 108 sel # P3	Texas A&M University College Station	USA	3
39	Re108	SCO 599-11E	Texas A&M University College Station	USA	1
40	Re109	GKR 140	Karcag	Hungary	1

No.	Sample name	Genotype	Collection origin		Grain colour
			Institution	Country	
41	Re111	GKR 137	Karcag	Hungary	1
42	Re112	GKR 216	Karcag	Hungary	7
43	Re113	GKR 239	Karcag	Hungary	1
44	Re114	GKR 234	Karcag	Hungary	7
45	Re116	GKR 208	Karcag	Hungary	8
46	Re117	GKR 242	Karcag	Hungary	3
47	Re118	GKR 105	Karcag	Hungary	1
48	Re119	GKR 221	Karcag	Hungary	8
49	Re120	GKR 172	Karcag	Hungary	5
50	Re125	R OKY 31	Oklahoma State University Stillwater	USA	5
51	Re127	RTx 414	Texas A&M University College Station	USA	5
52	Re128	RTAM 428	Texas A&M University College Station	USA	4
53	Re130	RTx 432	Texas A&M University College Station	USA	3
54	Re132	RTx 434	Texas A&M University College Station	USA	2
55	Re139	RTx 7000 (Caprock)	Oklahoma State University Stillwater	USA	6
56	Re140	RTx 7005	Oklahoma State University Stillwater	USA	6
57	Re142	RTx 2567	Oklahoma State University Stillwater	USA	4
58	Re143	RTx 2737	Oklahoma State University Stillwater	USA	7
59	Re147	RTx 433	Oklahoma State University Stillwater	USA	8
60	Re149	RTx 435	Oklahoma State University Stillwater	USA	5
61	Re150	RBMR 6	Oklahoma State University Stillwater	USA	3
62	Re153	RP-721	Oklahoma State University Stillwater	USA	1
63	Re154	RTx 2786	Oklahoma State University Stillwater	USA	2
64	Re156	RQL-3 India	Oklahoma State University Stillwater	USA	8
65	Re157	RCS 3541	Oklahoma State University Stillwater	USA	8
67	Re159	ROKY 8	Oklahoma State University Stillwater	USA	4
69	Re166	ROKY 40	Oklahoma State University Stillwater	USA	7
70	Re168	ROKY 78	Oklahoma State University Stillwater	USA	7
71	Re169	ROKY 78	Oklahoma State University Stillwater	USA	8
72	Re172	RF4 78xAS-I-II-I	Oklahoma State University Stillwater	USA	3
73	Re175	IA 2	Iowa State University Ames	USA	8
74	Re176	IA 3	Iowa State University Ames	USA	8
75	Re177	IA 4	Iowa State University Ames	USA	8
76	Re178	IA 5	Iowa State University Ames	USA	6
77	Re181	IA 8	Iowa State University Ames	USA	6
78	Re182	IA 9	Iowa State University Ames	USA	8
79	Re183	IA 10	Iowa State University Ames	USA	8
80	Re184	IA 11	Iowa State University Ames	USA	7
81	Re185	IA 12	Iowa State University Ames	USA	8
82	Re187	IA 14	Iowa State University Ames	USA	6
83	Re188	IA 15	Iowa State University Ames	USA	7
84	Re189	IA 16	Iowa State University Ames	USA	7
85	Re190	IA 17	Iowa State University Ames	USA	3
86	Re192	IA 19	Iowa State University Ames	USA	9
87	Re193	IA 20	Iowa State University Ames	USA	4

No.	Sample name	Genotype	Collection origin		Grain colour
			Institution	Country	
88	Re194	IA 21	Iowa State University Ames	USA	3
89	Re195	IA 22	Iowa State University Ames	USA	8
90	Re196	IA 23	Iowa State University Ames	USA	7
91	Re197	IA 24	Iowa State University Ames	USA	7
92	Re199	IA 26	Iowa State University Ames	USA	1
93	Re200	IA 27	Iowa State University Ames	USA	2
94	Re201	IA 28	Iowa State University Ames	USA	9
95	Re203	RNB 13	University of Nebraska Lincoln	USA	7
96	Re204	RNB 14	University of Nebraska Lincoln	USA	2
97	Re205	N 3494	University of Nebraska Lincoln	USA	6
98	Re206	N 4610	University of Nebraska Lincoln	USA	5
99	Re208	N 6250	University of Nebraska Lincoln	USA	2
100	Re210	KS 25	University of Nebraska Lincoln	USA	7
101	Re214	KS 29	University of Nebraska Lincoln	USA	9
102	Re216	RTx 432	Texas A&M University College Station	USA	3
103	Re217	RTx 433	Texas A&M University College Station	USA	7
104	Re218	RTx 434	Texas A&M University College Station	USA	7
105	Re219	RTAM 428	Texas A&M University College Station	USA	3
106	Re223	RTx 2737	Texas A&M AgriLife Research and Extension Center at Lubbock	USA	3
107	Re224	RTx 2738	Texas A&M AgriLife Research and Extension Center at Lubbock	USA	6
108	Re225	RTx 2739	Texas A&M AgriLife Research and Extension Center at Lubbock	USA	7
109	Re230	RTx 2744	Texas A&M AgriLife Research and Extension Center at Lubbock	USA	8
110	Re234	RTx 2748	Texas A&M AgriLife Research and Extension Center at Lubbock	USA	4
111	Re236	RTx 2793	Texas A&M AgriLife Research and Extension Center at Lubbock	USA	6
112	Re237	RTx 2794	Texas A&M AgriLife Research and Extension Center at Lubbock	USA	4
113	Re238	RTx 2795	Texas A&M AgriLife Research and Extension Center at Lubbock	USA	4
114	Re241	RTx 2798	Texas A&M AgriLife Research and Extension Center at Lubbock	USA	4
115	Re245	RTAMU 28	Texas A&M AgriLife Research and Extension Center at Lubbock	USA	4
116	Re247	RTx 7078	Texas A&M AgriLife Research and Extension Center at Lubbock	USA	6
117	Re248	32612 T	Unknown		8
118	Re252	SC 599-11E	Texas A&M University College Station	USA	1
119	Re258	NK 115 978/90	Northrup King	USA	6
120	Re261	NK 90 970/90	Northrup King	USA	7
121	Re262	Pioneer 8910 968/90	Pioneer	USA	9
122	Re264	Tx 2819	Texas A&M University College Station	USA	4
123	Re265	Tx 2820	Texas A&M University College Station	USA	7
124	Re275	Tx 2830	Texas A&M University College Station	USA	4
125	Re276	Tx 2831	Texas A&M University College Station	USA	7
126	Re279	Tx 2834	Texas A&M University College Station	USA	6
127	Re281	Tx 2836	Texas A&M University College Station	USA	4
128	Re283	Tx 2838	Texas A&M University College Station	USA	4
129	Re284	Tx 2839	Texas A&M University College Station	USA	4
130	Re286	Tx 2841	Texas A&M University College Station	USA	4
131	Re294	Tx 2849	Texas A&M University College Station	USA	4
132	Re296	Tx 2851	Texas A&M University College Station	USA	7

No.	Sample name	Genotype	Collection origin		Grain colour
			Institution	Country	
133	Re298	Tx 2853	Texas A&M University College Station	USA	9
134	Re299	Tx 2854	Texas A&M University College Station	USA	3
135	Re302	Tx 2857	Texas A&M University College Station	USA	3
136	Re303	SCP 363 83 L 6309	Unknown		3
137	Re307	RTx 433	Texas A&M University College Station	USA	6
138	Re308	RTx 2737	Texas A&M University College Station	USA	4
139	Re309	Tx 2786	Texas A&M University College Station	USA	7
140	Re310	Tx 2898	Texas A&M University College Station	USA	4
141	Re312	IS2508C (SC 414)	Unknown		1
142	Re314	RTAM 428	Texas A&M AgriLife Research and Extension Center at Lubbock	USA	4
143	Re316	RTx 414	Texas A&M University College Station	USA	8
144	Re317	RTx 2783	Texas A&M University College Station	USA	7
145	Re318	RTx 2817	Texas A&M University College Station	USA	3
146	Re319	SC 326-6	Texas A&M University College Station	USA	3
147	Re320	SC 991	Unknown	USA	6
148	Re322	BP-334/21	Institute of Field and Vegetable Crops	Serbia	5
149	Re324	BP-335/21	Institute of Field and Vegetable Crops	Serbia	2
150	Re325	BP-336/21	Institute of Field and Vegetable Crops	Serbia	3
151	Re326	BP-337/21	Institute of Field and Vegetable Crops	Serbia	7
152	Re327	BP-338/21	Institute of Field and Vegetable Crops	Serbia	1
153	Re328	BP-328/21	Institute of Field and Vegetable Crops	Serbia	6
154	Re329	BP-340/21	Institute of Field and Vegetable Crops	Serbia	1
155	Re330	BP-341/21	Institute of Field and Vegetable Crops	Serbia	8
156	Re331	BP-342/21	Institute of Field and Vegetable Crops	Serbia	2
157	Re332	BP-343/21	Institute of Field and Vegetable Crops	Serbia	8
158	Re333	BP-344/21	Institute of Field and Vegetable Crops	Serbia	9
159	Re334	BP-345/21	Institute of Field and Vegetable Crops	Serbia	3
160	Re335	BP-346//21	Institute of Field and Vegetable Crops	Serbia	2
161	Re336	BP-347/21	Institute of Field and Vegetable Crops	Serbia	3
162	Re337	BP-348/21	Institute of Field and Vegetable Crops	Serbia	2
163	Re338	BP-349/21	Institute of Field and Vegetable Crops	Serbia	8
164	Re339	BP-350/21	Institute of Field and Vegetable Crops	Serbia	9
165	Re340	BP-351/21	Institute of Field and Vegetable Crops	Serbia	8
166	Re341	BP-352/21	Institute of Field and Vegetable Crops	Serbia	6
167	Re342	BP-353/21	Institute of Field and Vegetable Crops	Serbia	6
168	Re343	BP-354/21	Institute of Field and Vegetable Crops	Serbia	1
169	Re345	BP-355/21	Institute of Field and Vegetable Crops	Serbia	1
170	Re346	BP-356/21	Institute of Field and Vegetable Crops	Serbia	2
171	Re348	BP-357/21	Institute of Field and Vegetable Crops	Serbia	3
173	Re350	BP-359/21	Institute of Field and Vegetable Crops	Serbia	3
174	Re351	BP-360/21	Institute of Field and Vegetable Crops	Serbia	3
175	Re352	BP-361/21	Institute of Field and Vegetable Crops	Serbia	6
176	Re353	BP-362/21	Institute of Field and Vegetable Crops	Serbia	6
177	Re354	BP-363/21	Institute of Field and Vegetable Crops	Serbia	4
178	Re355	BP-364/21	Institute of Field and Vegetable Crops	Serbia	4

Grain color after threshing: 1 – white, 2 – grey white, 3 – yellowish white, 4 – light yellow, 5 – orange, 6 – orange red, 7 – light brown, 8 – red brown, 9 – dark brown, 10 – purple, 11 – black.

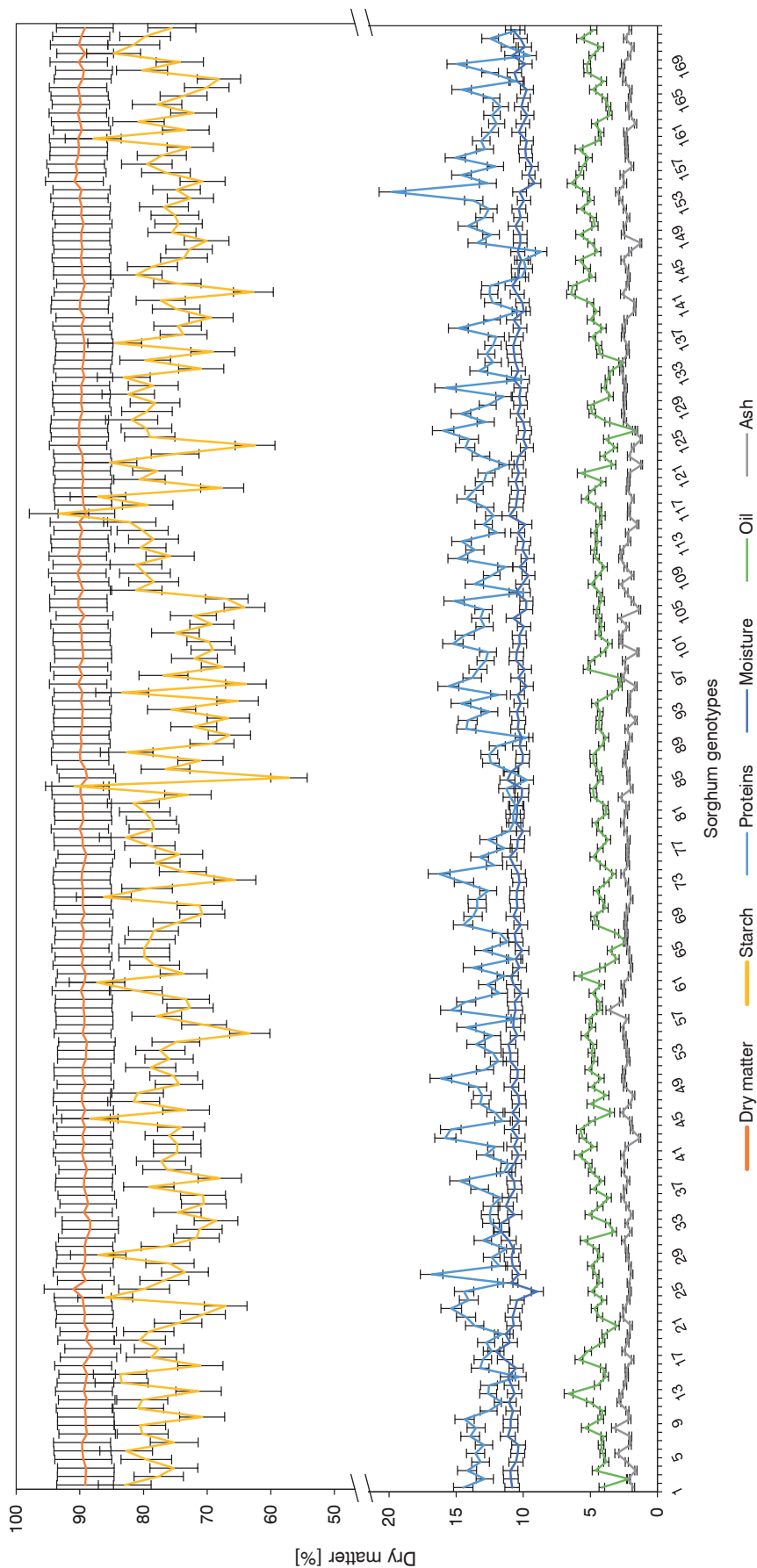


Fig. S1. Nutritional quality parameters of grains of various sorghum genotypes.

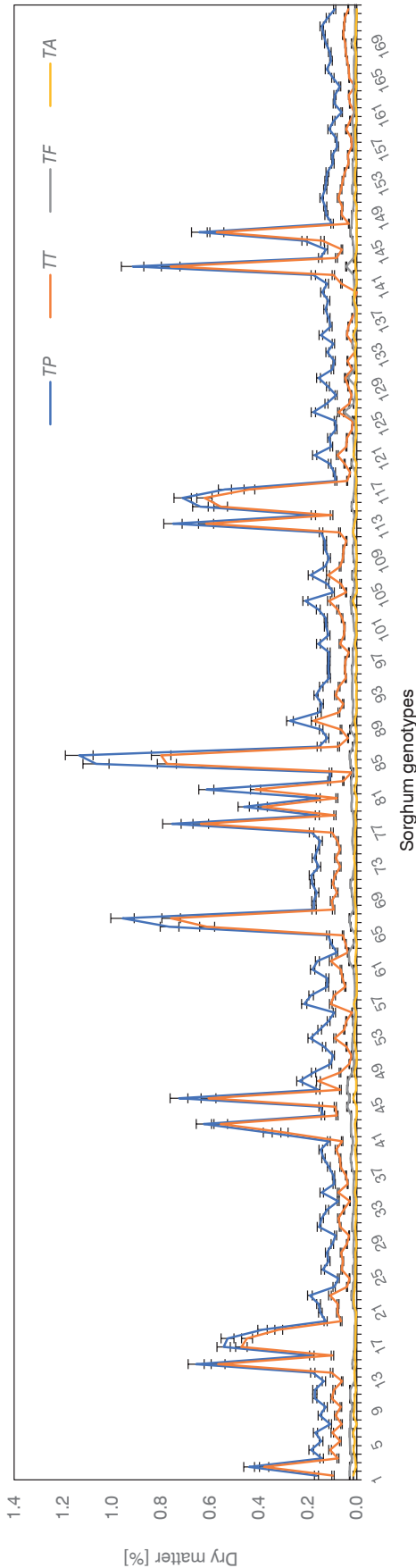


Fig. S2. Phenolic compounds in methanolic extracts of tested sorghum genotypes.

TP – total phenolics, TT – total tannins, TF – total flavonoids, TA – total anthocyanins.

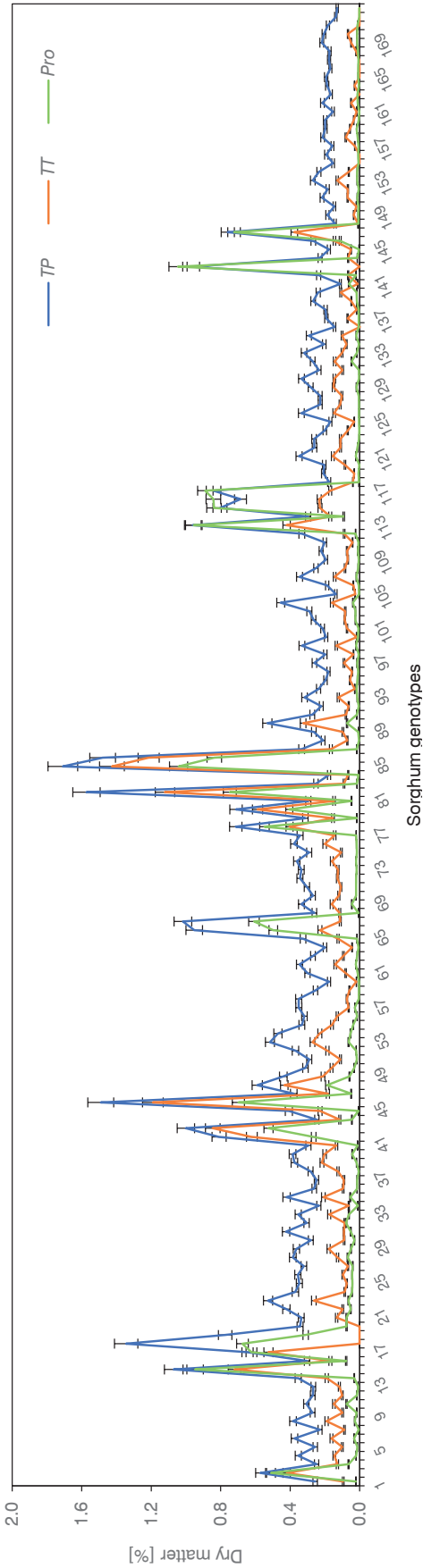


Fig. S3. Phenolic compounds in acetone extracts of tested sorghum genotypes.

TP – total phenolics, TT – total tannins, Pro – proanthocyanidins.