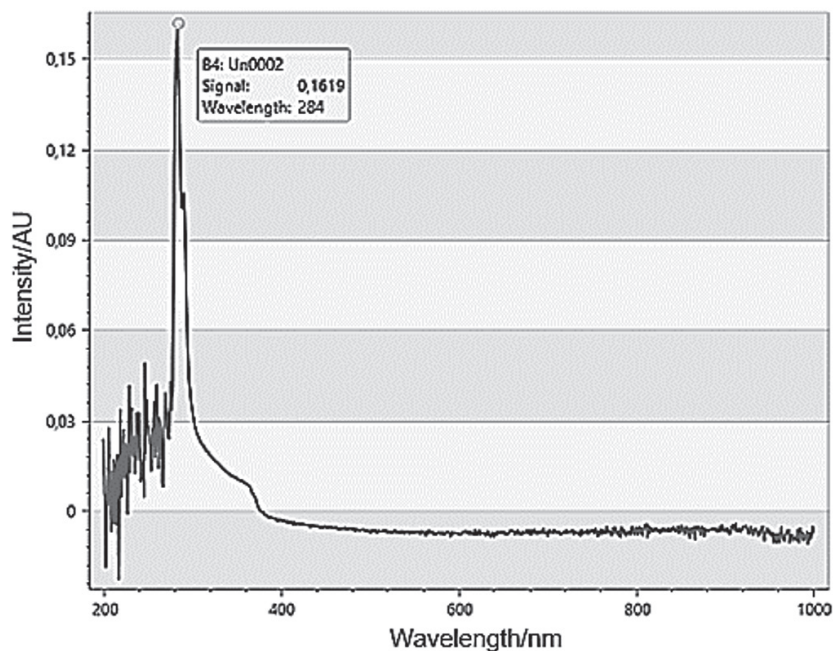


[Back to article](#)

**Fig. S1.** Spectrum of the exopolysaccharide EPS-SL70

[Back to article](#)

**Table S1.** MALDI-TOF mass spectrometry analysis of the isolates of yeast obtained from sourdough of einkorn flour

Isolate	Similarity	Biotyper log(score)	NCBI identifier
SM-1	<i>Saccharomyces cerevisiae</i>	2.025	4932
SM-2	<i>Saccharomyces cerevisiae</i>	2.230	4932
SM-3	<i>Saccharomyces cerevisiae</i>	2.034	4932
SM-4	<i>Saccharomyces cerevisiae</i>	2.010	4932
SM-5	<i>Saccharomyces cerevisiae</i>	1.928	4932
SM-6	<i>Saccharomyces cerevisiae</i>	1.786	4932
SM-7	<i>Saccharomyces cerevisiae</i>	1.994	4932
SM-8	<i>Candida lusitanae</i>	2.209	3691
SM-9	<i>Saccharomyces cerevisiae</i>	1.957	4932
SM-10	<i>Saccharomyces cerevisiae</i>	1.895	4932
SM-11	<i>Saccharomyces cerevisiae</i>	2.111	4932
SM-12	<i>Saccharomyces cerevisiae</i>	1.933	4932
SM-13	<i>Saccharomyces cerevisiae</i>	1.839	4932
SM-14	<i>Saccharomyces cerevisiae</i>	2.103	4932
SM-15	<i>Candida lusitanae</i>	2.244	3691
SM-16	<i>Candida lusitanae</i>	2.211	3691
SM-17	<i>Candida lusitanae</i>	2.213	3691
SM-18	<i>Candida lusitanae</i>	2.043	3691
SM-19	<i>Candida lusitanae</i>	2.343	3691
SM-20	<i>Saccharomyces cerevisiae</i>	2.139	4932
SM-22	<i>Saccharomyces cerevisiae</i>	2.163	4932
SM-23	<i>Candida lusitanae</i>	2.187	3691

Biotyper log(score) value: 3.0–2.3=highly probable species identification, 2.299–2.000=definite genus identification, probable species identification, 1.999–1.700=probable genus identification, 1.699–0.0=not reliable identification. NCBI=The National Center for Biotechnology Information (30)

Back to article

**Table S2.** MALDI-TOF mass spectrometry analysis of isolates of lactic acid bacteria grown on MRS medium obtained from sourdough of einkorn flour

Isolate	Similarity	Biotyper log(score)	NCBI identifier
SL-1	<i>Lactobacillus plantarum</i>	2.341	1590
SL-2	<i>Lactobacillus plantarum</i>	2.301	1590
SL-3	<i>Lactobacillus plantarum</i>	2.340	1590
SL-4	<i>Lactobacillus plantarum</i>	2.350	1590
SL-5	<i>Lactobacillus plantarum</i>	2.455	1590
SL-6	<i>Lactobacillus plantarum</i>	2.442	1590
SL-7	<i>Pediococcus pentosaceus</i>	2.085	1255
SL-8	<i>Lactobacillus plantarum</i>	2.335	1590
SL-9	<i>Lactobacillus plantarum</i>	2.355	1590
SL-10	<i>Lactobacillus plantarum</i>	2.456	1590
SL-11	<i>Lactobacillus plantarum</i>	2.422	1590
SL-12	<i>Lactobacillus plantarum</i>	2.450	1590
SL-13	<i>Lactobacillus plantarum</i>	2.393	1590
SL-14	<i>Lactobacillus plantarum</i>	2.280	1590
SL-15	<i>Lactobacillus plantarum</i>	2.352	1590
SL-16	<i>Lactobacillus plantarum</i>	2.435	1590
SL-17	<i>Lactobacillus brevis</i>	2.449	1580
SL-18	<i>Lactobacillus plantarum</i>	2.396	1590
SL-20	<i>Lactobacillus plantarum</i>	2.327	1590
SL-21	<i>Lactobacillus plantarum</i>	2.381	1590
SL-22	<i>Lactobacillus plantarum</i>	2.566	1590
SL-23	<i>Lactobacillus plantarum</i>	2.371	1590
SL-24	<i>Lactobacillus plantarum</i>	2.440	1590
SL-25	<i>Lactobacillus brevis</i>	2.468	1580
SL-26	<i>Lactobacillus plantarum</i>	2.316	1590
SL-27	<i>Lactobacillus plantarum</i>	2.400	1590
SL-28	<i>Lactobacillus plantarum</i>	2.226	1590

Biotyper log(score) value: 3.0–2.3=highly probable species identification; 2.299–2.000=definite genus identification, probable species identification; 1.999–1.700=probable genus identification; 1.699–0.0=not reliable identification. NCBI=The National Center for Biotechnology Information (30)

Back to article

**Table S3.** MALDI-TOF mass spectrometry analysis of isolates of lactic acid bacteria grown on M17 medium obtained from sourdough of einkorn flour

Isolate	Similarity	Biotyper log(score)	NCBI identifier
SL-29	<i>Lactobacillus plantarum</i>	2.057	1590
SL-30	<i>Lactobacillus plantarum</i>	1.737	1590
SL-31	<i>Lactobacillus plantarum</i>	1.875	1590
SL-32	<i>Lactobacillus brevis</i>	2.369	1580
SL-33	<i>Lactobacillus brevis</i>	2.389	1580
SL-34	<i>Lactobacillus plantarum</i>	2.242	1590
SL-35	<i>Lactobacillus plantarum</i>	1.900	1590
SL-36	<i>Lactobacillus plantarum</i>	2.082	1590
SL-37	<i>Lactobacillus plantarum</i>	2.363	1590
SL-38	<i>Lactobacillus plantarum</i>	2.090	1590
SL-39	<i>Lactobacillus plantarum</i>	1.860	1590
SL-40	<i>Lactobacillus plantarum</i>	1.845	1590
SL-42	<i>Lactobacillus plantarum</i>	1.897	1590
SL-43	<i>Lactobacillus plantarum</i>	1.934	1590
SL-44	<i>Lactobacillus plantarum</i>	2.061	1590
SL-45	<i>Pediococcus pentosaceus</i>	2.114	1255
SL-46	<i>Lactobacillus plantarum</i>	1.942	1590
SL-47	<i>Lactobacillus plantarum</i>	1.871	1590
SL-49	<i>Lactobacillus plantarum</i>	2.033	1590
SL-50	<i>Lactobacillus plantarum</i>	2.092	1590
SL-51	<i>Lactobacillus paraplantarum</i>	1.702	60520
SL-54	<i>Lactobacillus paraplantarum</i>	1.988	60520
SL-56	<i>Lactobacillus plantarum</i>	1.988	1590
SL-58	<i>Lactobacillus paraplantarum</i>	2.027	60520
SL-60	<i>Enterococcus faecium</i>	1.914	1352
SL-62	<i>Lactobacillus plantarum</i>	1.922	1590
SL-65	<i>Lactobacillus paraplantarum</i>	2.018	60520
SL-69	<i>Lactobacillus paraplantarum</i>	1.758	60520
SL-70	<i>Enterococcus durans</i>	2.105	53345

Biotyper log(score) value: 3.0–2.3=highly probable species identification; 2.299–2.000=definite genus identification, probable species identification; 1.999–1.700=probable genus identification; 1.699–0.0=not reliable identification. NCBI=The National Center for Biotechnology Information (30)

Back to article

**Table S4.** Production of the exopolysaccharide (EPS) by isolates of lactic acid bacteria obtained from sourdough of einkorn flour

Isolate	Similarity	$\gamma$ (EPS)/(g/L)
SL-1	<i>Lactobacillus plantarum</i>	–
SL-2	<i>Lactobacillus plantarum</i>	1.1
SL-3	<i>Lactobacillus plantarum</i>	1.0
SL-4	<i>Lactobacillus plantarum</i>	1.0
SL-5	<i>Lactobacillus plantarum</i>	0.8
SL-6	<i>Lactobacillus plantarum</i>	1.1
SL-7	<i>Pediococcus pentosaceus</i>	0.7
SL-8	<i>Lactobacillus plantarum</i>	0.8
SL-9	<i>Lactobacillus plantarum</i>	0.8
SL-10	<i>Lactobacillus plantarum</i>	0.9
SL-11	<i>Lactobacillus plantarum</i>	1.1
SL-12	<i>Lactobacillus plantarum</i>	0.8
SL-13	<i>Lactobacillus plantarum</i>	1.0
SL-14	<i>Lactobacillus plantarum</i>	1.1
SL-15	<i>Lactobacillus plantarum</i>	1.1
SL-16	<i>Lactobacillus plantarum</i>	0.9
SL-17	<i>Lactobacillus brevis</i>	0.9
SL-18	<i>Lactobacillus plantarum</i>	1.0
SL-20	<i>Lactobacillus plantarum</i>	1.1
SL-21	<i>Lactobacillus plantarum</i>	1.1
SL-22	<i>Lactobacillus plantarum</i>	1.2
SL-23	<i>Lactobacillus plantarum</i>	1.0
SL-24	<i>Lactobacillus plantarum</i>	1.1
SL-25	<i>Lactobacillus brevis</i>	0.9
SL-26	<i>Lactobacillus plantarum</i>	1.1
SL-27	<i>Lactobacillus plantarum</i>	1.2
SL-28	<i>Lactobacillus plantarum</i>	1.2
SL-29	<i>Lactobacillus plantarum</i>	1.2
SL-30	<i>Lactobacillus plantarum</i>	0.9
SL-31	<i>Lactobacillus plantarum</i>	0.7
SL-32	<i>Lactobacillus brevis</i>	0.9
SL-33	<i>Lactobacillus brevis</i>	0.8
SL-34	<i>Lactobacillus plantarum</i>	0.9
SL-35	<i>Lactobacillus plantarum</i>	1.2
SL-36	<i>Lactobacillus plantarum</i>	1.3
SL-37	<i>Lactobacillus plantarum</i>	1.1
SL-38	<i>Lactobacillus plantarum</i>	2.4
SL-39	<i>Lactobacillus plantarum</i>	1.0
SL-40	<i>Lactobacillus plantarum</i>	1.9
SL-42	<i>Lactobacillus plantarum</i>	2.3
SL-43	<i>Lactobacillus plantarum</i>	0.6
SL-44	<i>Lactobacillus plantarum</i>	0.4
SL-45	<i>Pediococcus pentosaceus</i>	0.7
SL-46	<i>Lactobacillus plantarum</i>	0.7
SL-47	<i>Lactobacillus plantarum</i>	0.7
SL-49	<i>Lactobacillus plantarum</i>	0.7
SL-50	<i>Lactobacillus plantarum</i>	0.6
SL-51	<i>Lactobacillus paraplantarum</i>	0.6
SL-54	<i>Lactobacillus paraplantarum</i>	1.2
SL-56	<i>Lactobacillus plantarum</i>	1.0
SL-58	<i>Lactobacillus paraplantarum</i>	1.2
SL-60	<i>Enterococcus faecium</i>	0.8
SL-62	<i>Lactobacillus plantarum</i>	0.8
SL-65	<i>Lactobacillus paraplantarum</i>	1.2
SL-69	<i>Lactobacillus paraplantarum</i>	0.9
SL-70	<i>Enterococcus durans</i>	1.0