Table S1 Geographical location of the propolis samples and identification code.

Propolis	City/Region	Zone Code
1	Omaña	I
2	Valduerna	I
3	Matallana De Torio	I
4	Tafalla	III
5	Xinzo De Lima	V
6	Degaña	I
7	Carballiño	V
8	Boimorto	V
9	Ourense1	V
10	Ourense2	V
11	Olot	II
12	Mutilva	III
13	Vegacervera	I
14	Mazon	I
15	Olmillos De Castro	I
16	Ourense3	V
17	Ourense4	V
18	Valdespina	I
19	Mostoles	I
20	San Quirce Del Valles (Barcelona)	II
21	Ferreras 1	I
22	Ferreras 2	I
23	Secarejo 1	I
24	Sueros De Cepeda1	I
25	Ferreras3	I
26	Ferreras4	I

27	Secarejo2	I
28	Brañuelas1	I
29	Brañuelas2	I
30	Brañuelas3	I
31	Sueros De Cepeda2	I

Table S2 Physicochemical characterization of propolis samples.

Region Code	***Wax (% w/w)***	***Resin (% w/w)***	***Ash (% w/w)***	***Impurities (% w/w)***	***Water+ volatil compounds and others (% w/w)***
I	27.82-10.64	76.26-50.73	2.92-0.33	10.03-3.29	22.29-5.43
II	14.83-13.74	73.79-66.86	1.32-0.44	11.07-3.25	9.04-5.99
III	21.13-8.68	83.52-65.73	0.92-0.58	5.89-5.35	7.21-1.23
IV	27.90-7.74	71.63-48.20	0.79-0.60	15.12-4.11	12.94-6.96

Table S3 MIC and MBC values for the all the EEPs after 48 h of EEP against the strains of Listeria grayii, Listeria innocua and Listeria monocytogenes under study on three different pH conditions.

EEP	PH	*Lm 10*		*L. innocua30*		*Lm51*		*Lm52*		*Lm74*		*Lm75*		*L. innocua 910*		*Lgrayii 931*		*Lm934*		*Lm935*		*Lm4032*	
		MIC	MBC	MIC	MBC	MIC	MBC	MIC	MBC	MIC	MBC	MIC	MBC	MIC	MBC	MIC	MBC	MIC	MBC	MIC	MBC	MIC	MBC
1	7.04	4	4	1	1	1	1	1	*	1	7	2	2	2	2	1	4	4	4	2	4	2	4
	6.01	2	2	2	2	3	4	2	2	2	7	2	2	2	1	2	2	2	2	2	2	2	4
	5.01	1	1	1	1	2	1	1	1	1	2	1	1	2	1	2	1	2	1	2	1	2	1
2	7.04	4	4	4	4	4	4	1	7	4	4	2	4	4	4	2	4	4	7	2	4	4	4
	6.01	2	2	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2	4	4	2	3	2
	5.01	2	2	7	2	1	1	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2
3	7.04	2	2	2	4	4	*	2	4	4	4	4	4	2	2	2	2	1	1	4	2	4	2
	6.01	1	4	2	2	2	7	2	1	2	2	4	2	2	1	2	1	3	1	2	1	4	2
	5.01	1	2	1	1	1	1	1	1	2	2	2	1	2	1	2	1	2	1	2	1	2	1
4	7.04	2	4	2	4	4	4	4	4	4	4	2	4	2	4	1	2	2	4	2	2	2	2
	6.01	3	4	2	4	2	7	2	7	2	4	2	7	4	4	3	2	4	4	4	4	4	4
	5.01	2	1	2	2	2	1	2	1	4	2	2	2	1	2	1	1	1	2	1	1	1	1
5	7.04	1	1	1	2	2	2	1	4	1	4	2	4	1	7	2	4	1	7	1	2	1	4
	6.01	2	1	2	4	2	2	2	2	2	4	2	4	2	2	2	**	2	4	2	4	2	2
	5.01	1	1	1	1	1	1	2	1	2	2	2	4	1	4	1	1	2	1	2	1	1	1
6	7.04	3	7	4	7	1	4	4	4	2	4	4	2	5	7	2	1	4	4	2	4	2	7
	6.01	2	2	2	2	2	4	2	4	4	4	2	7	2	2	2	2	2	2	4	2	4	4
	5.01	2	2	1	1	1	1	2	1	1	2	1	2	2	1	2	1	2	2	2	1	2	2
7	7.04	3	4	4	7	2	2	1	1	2	2	2	2	1	7	1	4	2	2	1	2	1	4
	6.01	1	2	1	2	2	1	2	4	1	2	1	2	1	2	2	2	2	4	2	2	2	1
	5.01	1	1	1	1	1	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	7.04	4	4	7	7	7	7	4	*	4	4	5	4	2	7	1	4	2	4	2	4	4	4
	6.01	1	2	1	1	2	4	1	4	2	2	2	4	2	2	2	2	2	2	2	4	2	2
	5.01	2	1	1	7	2	1	2	7	2	2	1	4	2	2	2	2	2	1	2	1	2	2

9	7.04	2	4	1	4	1	1	2	2	2	4	1	7	2	2	2	2	2	4	2	4	2	2
	6.01	1	2	1	4	2	1	1	2	2	2	1	2	2	4	1	2	1	1	1	2	1	1
	5.01	1	1	1	1	2	1	1	2	1	1	1	1	7	4	1	2	1	1	1	1	1	1
10	7.04	4	4	4	7	2	4	4	7	2	2	4	7	2	2	2	2	4	4	3	4	4	4
	6.01	3	2	2	2	4	1	2	7	4	2	2	2	4	1	3	2	3	4	3	4	4	2
	5.01	2	2	2	2	2	2	2	4	3	2	2	4	3	2	2	2	2	2	2	2	2	2
11	7.04	7	*	7	*	4	4	7	7	7	7	7	7	7	*	7	7	7	7	7	7	7	7
	6.01	2	4	2	4	3	1	2	4	2	2	2	4	4	1	2	1	2	2	4	2	3	2
	5.01	2	4	2	4	2	4	2	4	2	7	2	4	2	2	2	2	2	2	2	2	2	2
12	7.04	4	4	4	4	4	4	4	4	1	2	4	4	1	1	2	1	2	2	2	2	2	4
	6.01	2	2	2	2	2	4	2	2	2	1	2	2	2	1	2	1	2	1	2	2	2	2
	5.01	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	1	2	1	1	1
13	7.04	7	7	2	4	2	2	2	2	2	2	2	2	2	2	1	2	1	2	1	2	1	2
	6.01	2	1	2	1	2	1	2	1	2	2	2	2	2	2	3	1	2	2	2	1	2	1
	5.01	2	1	1	1	2	1	4	1	2	2	2	2	2	1	1	1	2	1	2	1	2	1
14	7.04	2	7	2	2	4	4	2	4	2	4	2	2	2	2	4	2	2	2	2	2	2	4
	6.01	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1
	5.01	1	1	1	1	1	1	1	1	1	4	1	1	2	1	2	1	2	1	1	1	2	1
15	7.04	4	7	4	7	2	2	4	7	4	4	4	4	4	4	4	4	4	4	4	4	4	7
	6.01	2	2	2	4	4	2	2	*	4	4	2	4	4	4	2	4	2	2	3	2	2	1
	5.01	2	1	1	2	2	1	2	4	2	2	3	2	2	2	7	1	2	1	2	2	2	1
16	7.04	2	2	2	2	1	1	2	2	2	4	2	2	2	2	1	2	2	2	2	2	2	2
	6.01	2	4	2	1	2	1	2	2	2	2	2	2	1	2	1	2	1	4	2	2	2	2
	5.01	2	*	2	2	2	1	2	1	2	1	2	2	1	1	1	1	1	1	2	1	2	1
17	7.04	2	2	2	2	**	*	1	4	2	4	2	2	2	2	2	4	1	2	1	2	2	4
	6.01	1	1	1	1	2	2	1	4	2	2	7	4	2	2	2	2	2	2	2	2	4	2
	5.01	1	**	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	2	1
18	7.04	2	2	2	4	1	1	2	4	2	2	1	2	2	2	2	2	1	2	2	2	2	2
	6.01	1	4	1	2	1	4	1	2	2	2	1	2	3	2	2	2	2	2	2	2	2	1
	5.01	1	4	1	2	1	*	1	2	1	1	1	1	2	4	3	2	1	1	1	1	1	1
19	7.04	4	4	4	4	2	2	2	4	4	4	2	4	4	4	2	4	4	4	4	4	4	4
	6.01	2	7	2	4	2	1	2	4	2	4	2	2	3	2	2	4	2	4	2	4	2	4
	5.01	1	*	1	1	2	4	1	2	2	2	2	2	3	2	1	2	1	2	2	2	1	2

20	7.04	4	4	4	7	4	7	4	7	4	7	7	7	4	7	2	4	4	4	7	7	4	4
	6.01	4	4	4	4	4	7	5	7	7	4	7	4	4	4	4	4	4	4	4	7	4	4
	5.01	3	4	2	4	4	2	4	4	4	4	4	7	3	4	3	7	3	4	4	7	4	4
21	7.04	4	4	7	7	4	4	4	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	6.01	2	**	2	2	2	7	2	4	2	2	2	2	1	2	1	2	1	2	1	2	1	2
	5.01	1	**	1	1	1	2	1	1	1	1	1	1	2	1	2	1	1	1	1	1	2	1
22	7.04	2	2	2	2	4	4	2	4	2	4	2	2	2	2	4	4	2	2	2	2	2	2
	6.01	2	*	2	2	2	1	2	2	2	2	2	4	2	1	1	4	1	2	2	2	2	2
	5.01	1	4	1	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
23	7.04	2	7	2	2	1	2	2	2	2	2	2	2	2	2	2	1	3	4	2	4	2	7
	6.01	7	4	5	2	4	1	2	2	4	2	2	2	1	2	1	2	1	2	1	2	1	2
	5.01	2	*	2	1	2	2	2	4	3	1	2	1	2	1	1	1	1	1	1	1	1	1
24	7.04	2	**	1	1	1	1	2	2	2	2	2	2	2	2	1	1	4	4	1	2	1	2
	6.01	2	**	1	2	2	1	1	2	1	2	1	2	2	1	2	1	2	4	2	2	2	1
	5.01	1	**	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1
25	7.04	2	4	2	2	1	1	2	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	6.01	2	*	3	7	4	4	4	2	4	2	4	2	2	1	2	2	2	2	2	1	2	1
	5.01	2	**	2	1	2	4	2	1	2	1	2	1	2	1	2	1	1	1	2	1	2	1
26	7.04	1	2	1	2	2	4	4	7	2	2	2	2	4	4	2	2	2	2	2	2	2	2
	6.01	2	4	2	2	2	7	2	4	2	4	1	2	1	2	1	2	2	2	2	2	1	2
	5.01	2	*	1	1	2	1	2	2	2	2	1	1	1	2	1	1	1	2	1	2	1	1
27	7.04	7	*	2	*	2	*	2	*	4	*	2	*	4	*	4	7	4	7	**	*	2	2
	6.01	1	*	2	2	3	7	2	2	2	2	2	2	2	2	2	4	2	2	2	2	4	2
	5.01	1	**	1	1	2	1	1	1	2	1	1	1	2	2	2	4	2	2	2	2	2	1
28	7.04	1	*	2	4	2	2	4	7	4	4	2	7	4	4	2	4	4	4	4	4	4	4
	6.01	4	2	2	2	4	2	4	4	4	4	2	4	2	2	2	4	2	2	2	4	2	4
	5.01	2	**	2	2	2	7	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2
29	7.04	2	*	2	4	2	2	2	7	2	4	2	7	4	4	4	4	4	4	4	4	4	4
	6.01	2	*	2	2	2	2	2	4	3	4	2	4	4	2	4	2	4	2	4	2	4	2
	5.01	2	7	2	2	3	1	3	4	2	2	2	2	3	2	2	2	2	2	2	1	2	2
30	7.04	4	7	2	4	2	2	2	4	2	4	2	4	4	4	4	4	4	4	3	4	4	4
	6.01	2	2	2	2	2	1	2	7	2	7	2	7	4	7	4	4	2	4	4	4	4	2
	5.01	1	*	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	1

31	7.04	2	7	2	7	7	4	2	7	2	*	2	4	4	4	2	4	2	4	2	4	4	4
	6.01	7	2	7	2	7	1	7	2	7	4	7	4	2	2	2	2	2	2	2	2	2	2
	5.01	3	4	3	1	4	7	3	1	4	2	4	2	1	2	1	1	1	2	1	1	1	2

Range identification: **1**:1-100 μg/ml; **2**: 101-200 μg/ml. **3**: 201-300 μg/ml; **4**: 301-400 μg/ml; **5**: 401-500 μg/ml; **6**: 501-600 μg/ml; **7**: 601-700 μg/ml; *: 1250 μg/ml; **: 2500 μg/ml