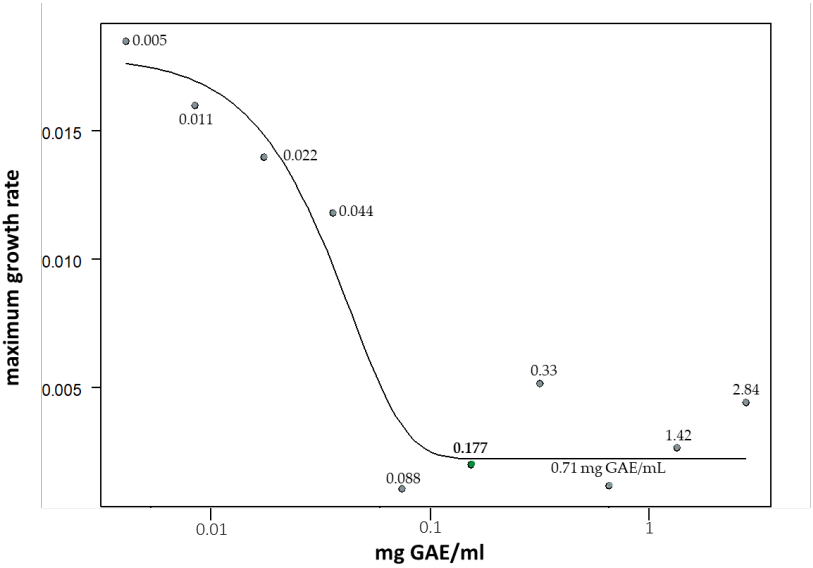
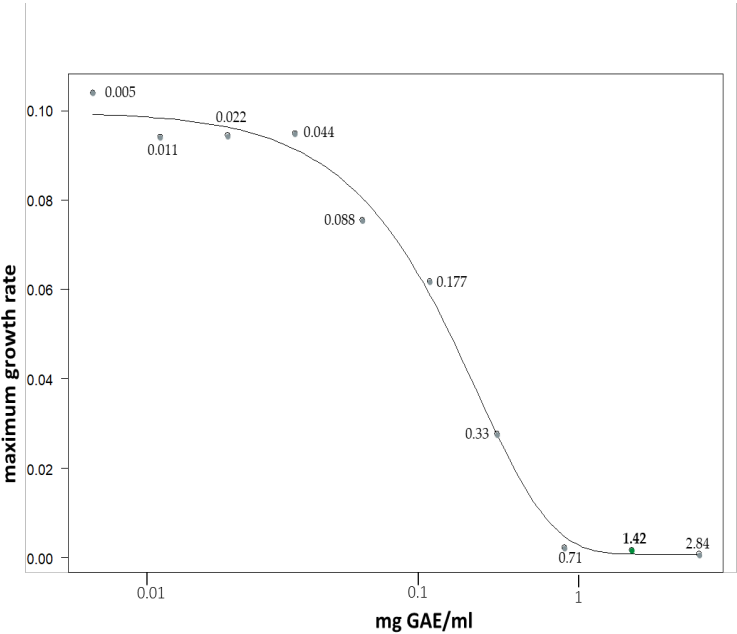


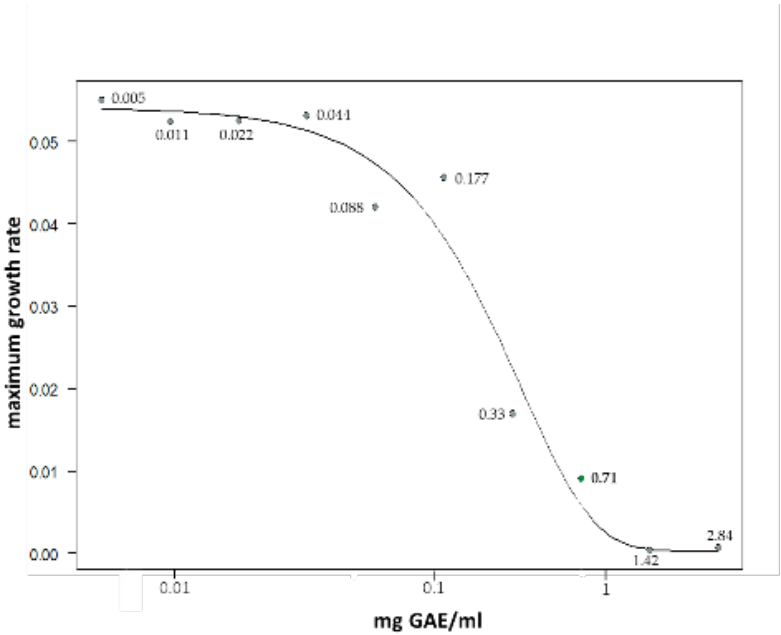
A



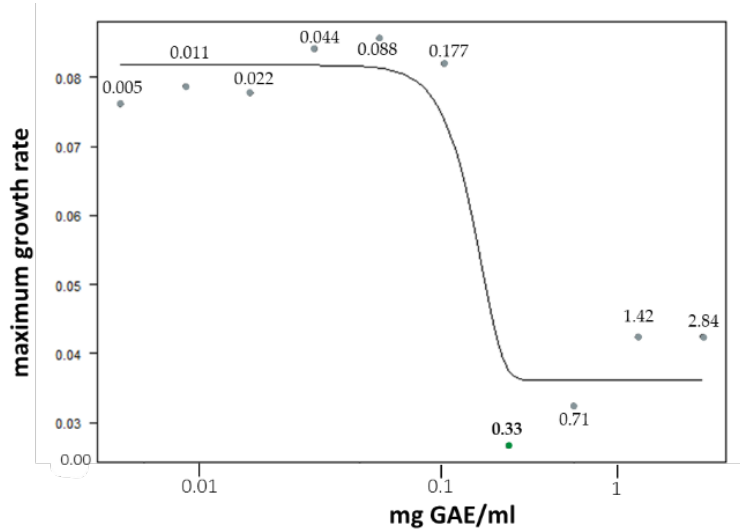
B



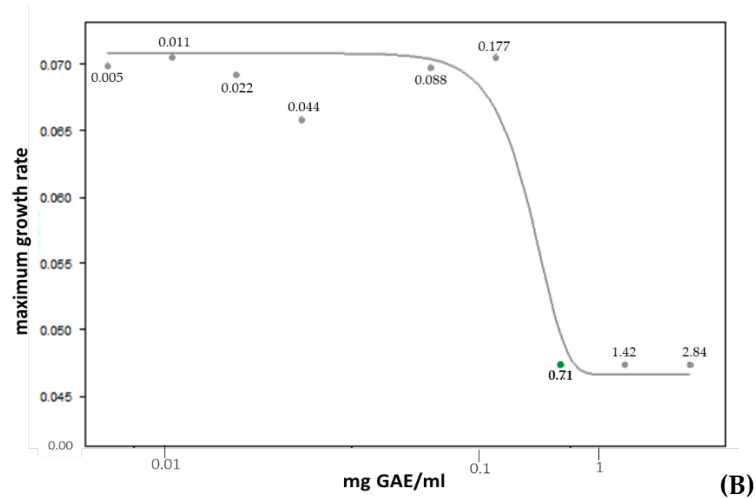
C



**Figure S1.** The effect of polyphenol concentration on the maximum growth rate of spoilage and pathogenic microorganisms. The growth of *S. aureus* DSM20231 was found to be inhibited by the *M. communis* extract at the predicted concentrations of  $0.177 \pm 0.071$  mg GAE/mL (A). *L. casei* ATCC393 growth was inhibited at  $1.42 \pm 0.81$  mg GAE/mL (B), and *L. plantarum* ATCC8014 at  $0.71 \pm 0.23$  mg GAE/mL (C).



(A)



(B)

**Figure S2.** The effect of polyphenol concentration on the maximum growth rate. *L. brevis* DSM6235 (A) and *F. lindneri* DSM20692 (B) was not completely inhibited by any of the tested concentrations of *M. communis* extract, even though a significant reduction of their specific growth rate ( $>0.01$ ) was predicted at  $0.335 \pm 0.85$  mg GAE/mL (A) and  $0.71 \pm 0.25$  mg GAE/mL (B), respectively.

**Table S1.** LCQTOF Mass chromatographic characteristics of compounds tentatively annotated in the *Myrtus communis* extract.

Compounds	Raw Formula	Maasured mass ( <i>m/z</i> ) and adduct	Retention time (min)	Area	Area % (n=3)
Quinic acid Isomer 1	C <sub>7</sub> H <sub>12</sub> O <sub>6</sub>	193,0709 (M+H) <sup>+</sup>	1.45	431199343	1,666±0.091
Quinic acid Isomer 2	C <sub>7</sub> H <sub>12</sub> O <sub>6</sub>	193,0713 (M+H) <sup>+</sup>	1.663	11588339	0,209±0.015
Galloyl quinic acid	C <sub>14</sub> H <sub>16</sub> O <sub>10</sub>	367,0645 (M+Na) <sup>+</sup>	2.135	1450569	3,578±0.478
Myricetin galloyl hexoside	C <sub>28</sub> H <sub>24</sub> O <sub>17</sub>	655.0915 (M+Na) <sup>+</sup>	2.347	24885343	7,082±0.971
Myricetin galloyl rhamnopyranoside	C <sub>28</sub> H <sub>24</sub> O <sub>16</sub>	617,1129 (M+H) <sup>+</sup>	2.607	49252934	4,227±0.713
Digalloyl-hexahydroxydiphenoyl-glucose	C <sub>41</sub> H <sub>28</sub> O <sub>27</sub>	953,0898 (M+H) <sup>+</sup>	3.08	29395900	2,827±0.125
Unknown			3.623	19659809	11,214±1.655
Myricetin galactoside	C <sub>21</sub> H <sub>20</sub> O <sub>13</sub>	481.0979 (M+H) <sup>+</sup>	5.052	77987409	3,030±0.489
Unknown			9.067	21072297	6,065±0.687
Gallomyrtucommulone C	C <sub>27</sub> H <sub>36</sub> O <sub>13</sub>	569,2235 (M+H) <sup>+</sup>	9.693	42178233	20,302±2.223
Unknown			10.318	141189741	6,189±0.713
Gallomyrtucommulone A	C <sub>27</sub> H <sub>38</sub> O <sub>13</sub>	571,2390 (M+H) <sup>+</sup>	10.661	43041079	2,007±0.905
Unknown			11.24	13954538	2,963±0.348
Unknown			11.44	20605377	2,411±0.221
Unknown			11.854	16764250	2,890±0.845
Unknown			12.987	20097332	3,114±0.458
Unknown			13.932	21656860	4,706±0.378
Unknown			15.042	32728870	4,153±0.698
Unknown			15.904	28879546	4,152±0.359
Vitexin	C <sub>21</sub> H <sub>20</sub> O <sub>10</sub>	433,1135 (M+H) <sup>+</sup>	16.648	34929655	3,387±0.825
Unknown			17.002	23554097	3,253±1.085
Unknown			18.809	22619885	4,730±0.688
Unknown			19.045	32892977	1,666±0.457