

Supplementary Table S2. Mean populations (in log₁₀ cfu/gr) of Total Mesophilic Counts, Total Psychrophilic Counts, *Brochothrix thermosphacta* and Lactic Acid Bacteria in meat pieces from thigh region (standard deviation in parenthesis).

Lot	Stor-age (Days)	Treatment										Sig.	
		Co	Ch	Ch + or	Ch + va	Ch + or + va	Va	Al	Al + or	Al + va	Al + or + va		
TMC	0	5.18 (0.20) ^{Aa}	5.18 (0.2) ^{Aab}	5.18 (0.20) ^{Aab}	5.18 (0.20) ^{Aab}	5.18 (0.20) ^{Aab}	5.18 (0.20) ^{Aa}	5.18 (0.20) ^{Aa}	5.18 (0.20) ^{Aa}	5.18 (0.20) ^{Aa}	5.18 (0.20) ^{Aa}	NS	
	1	6.80 (1.49) ^{Aab}	4.21 (0.70) ^{Aa}	5.40 (1.20) ^{Aab}	5.63 (0.79) ^{Aab}	4.87 (0.04) ^{Aab}	5.47 (0.01) ^{Aab}	5.60 (0.15) ^{Aa}	6.46 (0.56) ^{Aab}	6.06 (0.19) ^{Ab}	5.87 (0.04) ^{Aab}	6.00 (0.01) ^{Aab}	NS
	3	6.60 (0.59) ^{ABCab}	5.23 (0.61) ^{ABab}	4.74 (0.30) ^{Aa}	4.81 (0.36) ^{Aa}	5.19 (1.04) ^{Aa}	6.69 (0.42) ^{ABCbc}	6.39 (0.12) ^{ABCb}	6.95 (0.06) ^{BCb}	6.17 (0.21) ^{ABCb}	7.37 (0.53) ^{Cab}	7.47 (0.49) ^{Cbc}	*
	7	5.70 (1.41) ^{Aa}	5.30 (0.33) ^{Aab}	5.87 (0.21) ^{Aab}	5.96 (0.12) ^{Aab}	5.95 (0.06) ^{Aab}	5.60 (0.01) ^{Aab}	6.60 (0.15) ^{Abc}	7.34 (0.70) ^{Ab}	6.77 (0.01) ^{Ac}	7.32 (0.91) ^{Aab}	7.00 (0.01) ^{Abc}	NS
	14	6.00 (0.01) ^{ABab}	5.74 (0.17) ^{Abc}	6.92 (0.61) ^{ABab}	6.69 (0.42) ^{ABb}	6.84 (0.08) ^{ABb}	6.53 (0.61) ^{ABabc}	7.14 (0.28) ^{ABc}	7.14 (0.28) ^{ABb}	6.90 (0.01) ^{ABc}	7.54 (0.55) ^{Bb}	7.44 (0.65) ^{ABbc}	*
	21	7.17 (0.21) ^{ABb}	7.17 (0.21) ^{ABC}	7.17 (0.21) ^{ABb}	6.74 (0.05) ^{ABb}	6.21 (0.70) ^{Aab}	6.95 (0.06) ^{ABC}	6.97 (0.03) ^{ABbc}	7.09 (0.42) ^{ABb}	6.81 (0.14) ^{ABC}	7.75 (0.58) ^{Bb}	8.00 (0.01) ^{Bc}	**
	Sig.	***	***	***	***	*	***	***	***	***	***	***	
TPC	0	5.00 (0.01) ^{Aa}	5.00 (0.01) ^{Aab}	5.00 (0.01) ^{Aab}	5.00 (0.01) ^{Aa}	5.00 (0.01) ^{Aa}	5.00 (0.01) ^{Aa}	5.00 (0.01) ^{Aa}	5.00 (0.01) ^{Aa}	5.00 (0.01) ^{Aa}	5.00 (0.01) ^{Aa}	NS	
	1	7.00 (1.50) ^{Aab}	4.17 (0.21) ^{Aa}	4.74 (0.70) ^{Aa}	5.77 (0.49) ^{Aab}	5.70 (1.20) ^{Aab}	5.90 (0.15) ^{Ab}	5.90 (0.01) ^{Ab}	6.69 (0.67) ^{Ab}	6.30 (0.15) ^{Ab}	6.13 (0.32) ^{Ab}	6.00 (0.01) ^{Ab}	NS
	3	7.30 (0.01) ^{Cab}	6.19 (0.91) ^{ABCabc}	5.09 (0.42) ^{ABab}	5.31 (1.00) ^{Aa}	6.61 (1.00) ^{ABCab}	6.95 (0.06) ^{ABCcd}	7.14 (0.28) ^{BCc}	7.39 (0.12) ^{Cbc}	6.69 (0.01) ^{ACb}	7.69 (0.12) ^{Cc}	7.95 (0.06) ^{Cc}	**
	7	7.17 (0.21) ^{ABab}	6.38 (0.49) ^{Abc}	6.51 (0.04) ^{Abc}	6.67 (0.23) ^{Aabc}	7.09 (0.12) ^{ABab}	6.84 (0.08) ^{Ac}	7.84 (0.08) ^{BCd}	8.30 (0.33) ^{Ccd}	7.84 (0.28) ^{BCc}	8.30 (0.01) ^{Ccd}	8.17 (0.21) ^{Ccd}	***
	14	7.39 (0.42) ^{Aab}	7.30 (0.33) ^{Ac}	7.45 (0.63) ^{ABCc}	7.65 (0.06) ^{ABCDc}	7.69 (0.12) ^{ABCDb}	7.39 (0.12) ^{ABd}	8.54 (0.08) ^{De}	8.30 (0.01) ^{ABCDcd}	7.90 (0.15) ^{ABCDc}	8.45 (0.21) ^{BCDd}	8.47 (0.01) ^{CDd}	*
	21	9.70 (1.41) ^{Ab}	8.17 (0.21) ^{Ad}	7.69 (0.42) ^{Ac}	7.27 (0.4) Abc	7.54 (0.28) ^{Aab}	7.47 (0.21) ^{Ad}	8.3 (0.01) ^{Ade}	8.65 (0.06) ^{Ad}	8.17 (0.21) ^{Ac}	8.47 (0.21) ^{Ad}	8.39 (0.21) ^{Ad}	NS
	Sig.	***	***	***	***	***	***	***	***	***	***	***	
<i>B. thermosphacta</i>	0	4.52 (0.13) ^{Aa}	4.52 (0.13) ^{Aab}	4.52 (0.13) ^{Aa}	4.52 (0.13) ^{Aa}	4.52 (0.13) ^{Aa}	4.52 (0.13) ^{Aa}	4.52 (0.13) ^{Aa}	4.52 (0.13) ^{Aa}	4.52 (0.13) ^{Aab}	4.52 (0.13) ^{Aa}	4.52 (0.13) ^{Aa}	NS
	1	4.47 (0.49) ^{Aa}	3.43 (0.30) ^{Aa}	4.24 (1.58) ^{Aa}	4.32 (0.91) ^{Aa}	4.34 (0.70) ^{Aa}	4.74 (0.05) ^{Aa}	5.02 (0.28) ^{Aab}	4.77 (0.49) ^{Aa}	4.30 (0.33) ^{Aa}	5.06 (0.08) ^{Aab}	4.00 (0.01) ^{Ab}	NS

		5.39 (0.12) ^{ABab}	4.72 (0.81) ^{ABab}	3.77 (0.21) ^{Aa}	3.95 (0.06) ^{ABA}	5.30 (1.41) ^{ABA}	4.90 (0.15) ^{ABA}	6.02 (0.14) ^{Bbc}	6.09 (0.42) ^{Bab}	5.17 (0.21) ^{ABbc}	4.87 (0.04) ^{ABab}	5.30 (0.01) ^{ABC}	*
	3	6.17 (0.21) ^{DEab}	4.24 (0.28) ^{Aab}	5.47 (0.10) ^{BCDa}	4.54 (0.08) ^{ABA}	4.97 (0.40) ^{ABCa}	4.84 (0.08) ^{ABA}	6.90 (0.01) ^{Ec}	6.67 (0.51) ^{DEb}	6.00 (0.01) ^{CDEd}	6.36 (0.58) ^{DEc}	5.69 (0.12) ^{CDcd}	***
	7	6.87 (1.41) ^{Aab}	5.57 (0.12) ^{Abc}	6.26 (0.44) ^{Aa}	4.00 (0.01) ^{Aa}	5.02 (0.91) ^{Aa}	5.30 (0.01) ^{Ab}	6.30 (0.85) ^{Abc}	5.75 (0.58) ^{Aab}	6.00 (0.12) ^{Ad}	5.69 (0.01) ^{Abc}	5.39 (0.01) ^{Ac}	NS
	14	8.71 (1.07) ^{Db}	6.17 (0.21) ^{BCc}	6.02 (0.28) ^{BCa}	4.00 (0.01) ^{Aa}	5.02 (0.91) ^{ABA}	6.24 (0.08) ^{BCc}	6.60 (0.01) ^{CDc}	6.24 (0.55) ^{BCab}	5.81 (0.14) ^{ABCcd}	5.69 (0.12) ^{ABCbc}	5.90 (0.15) ^{ABCd}	***
	21	***	***	***	NS	NS	**	***	***	***	***	***	**
Sig.													
	0	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	NS
	1	3.55 (0.49) ^{ABb}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.87 (0.04) ^{ABb}	3.81 (0.14) ^{Bb}	3.02 (0.91) ^{ABabc}	2.74 (0.70) ^{ABA}	3.90 (0.01) ^{Bb}	*
	3	3.84 (0.18) ^{BCbc}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	2.00 (0.01) ^{Aa}	3.77 (0.10) ^{BCb}	3.54 (0.28) ^{Bc}	3.81 (0.14) ^{BCb}	2.23 (0.33) ^{Aab}	3.92 (0.03) ^{BCb}	4.17 (0.01) ^{Cb}	***
LAB	7	3.54 (0.08) ^{Ab}	4.20 (0.76) ^{Ab}	3.81 (0.36) ^{Ab}	3.81 (0.36) ^{Ab}	3.87 (0.21) ^{Ab}	3.87 (0.21) ^{Ab}	3.77 (0.21) ^{Ac}	4.65 (0.63) ^{Abc}	4.00 (0.01) ^{Abcd}	4.54 (0.28) ^{Ab}	4.00 (0.01) ^{Ab}	NS
	14	4.54 (0.08) ^{Ac}	4.50 (0.14) ^{Ab}	4.65 (0.63) ^{Ab}	4.24 (0.08) ^{Ab}	4.74 (0.05) ^{Ac}	4.47 (0.49) ^{ABC}	4.04 (0.11) ^{Ac}	4.95 (0.29) Abc	4.69 (0.01) ^{Ad}	4.92 (0.10) ^{Abc}	4.69 (0.01) ^{Ac}	NS
	21	5.14 (0.28) ^{ABd}	4.84 (0.28) ^{ABb}	5.81 (0.04) ^{Bc}	5.65 (0.06) ^{ABC}	5.09 (0.12) ^{ABC}	5.11 (0.36) ^{ABC}	5.17 (0.01) ^{ABd}	5.14 (0.28) ^{ABC}	4.74 (0.70) ^{Ac}	5.84 (0.08) ^{Bc}	5.17 (0.21) ^{ABd}	*
Sig.		***	***	***	***	***	***	***	***	***	***	***	

Treatment: Co: Control; Ch: Chitosan; Ch + or: Chitosan + oregano; Ch + va: Chitosan + vacuum; Ch + or + va: Chitosan + oregano + vacuum; Va: Vacuum; Al: Alginate; Al + or: Alginate + oregano; Al + va: Alginate + vacuum; Al + or + va: Alginate + oregano + vacuum; Al + ol + va: Alginate + olive + vacuum.

A-E Mean values in the same row (corresponding to the same days of storage) not followed by a common uppercase letter differ significantly (p -value < 0.05).

a-e Mean values in the same column (corresponding to the same treatment) not followed by a common lowercase letter differ significantly (p -value < 0.05).

* p -value < 0.05; ** p -value < 0.01; *** p -value < 0.001; NS no significance (p -value > 0.05).