

**Table 3** Internal pH changes in cell suspensions of *Listeria monocytogenes* and *Salmonella typhimurium* in response to a high hydrostatic pressure treatment. Late log phase cell suspensions of *L. monocytogenes* strain Scott A or *Salm. typhimurium* strain Mutton ATCC 13 311 (approximately  $10^9$  cfu ml<sup>-1</sup>) were diluted (1 : 5) in phosphate (pH 7.0) or citrate (pH 5.6) buffer (50 mmol l<sup>-1</sup>), and pressure-treated for 10 min at 20 °C. Reference suspensions were not pressure-treated

Bacteria	Suspension buffer	Pressure treatment (Mpa)	Intracellular pH value
<i>Listeria monocytogenes</i>	Sodium citrate	Reference	6.1 ± 0.1
		275	6.1 ± 0.3
		200	6.2 ± 0.1
		325	6.1 ± 0.1
		400	5.8 ± 0.1
	Phosphate	Reference	7.4 ± 0.1
		325	7.2 ± 0.1
		425	7.2 ± 0.1
		600	7.2 ± 0.1
		<i>Salmonella typhimurium</i>	Sodium citrate
200	6.2 ± 0.1		
275	5.9 ± 0.1		
350	5.6 ± 0.1		
Phosphate	Reference		7.8 ± 0.1
	250		7.8 ± 0.1
	325		7.5 ± 0.2
	400		7.4 ± 0.1

Determinations were made in two independent experiments, with duplicate measurements in each experiment. Values presented in this table are mean values ± standard deviations.