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Experimental design

One liter of tap water was analyzed on the presence of *Salmonella*. The tap water was inoculated with a cocktail of *Salmonella* strains (*Salmonella* Typhimurium LMG 10396 and *Salmonella enteritidis* LMG 10395) in order to have an inoculum of 1.9×10^4 CFU/ml. After inoculation 0, 2 ppm and 4 ppm of nano silver was added to the inoculated tap water. Counting was performed after 1 min, 5 min and 15 minutes contact time.

Results

Before inoculation no *Salmonella* was found in 1 liter of tap water. Table 1 summarizes the results after contact with the nano silver solution. The results are also represented in Figure 1.

Contact time (min)	Concentration		
	0 ppm	2 ppm	4 ppm
1	9.0×10^3	4.2×10^3	3.4×10^3
5	9.7×10^3	1.6×10^3	8.7×10^2
15	9.4×10^3	1.3×10^3	4.9×10^2

Results show an inactivation of about 1.5 log CFU/ml at the highest concentration tested after 15 minutes.

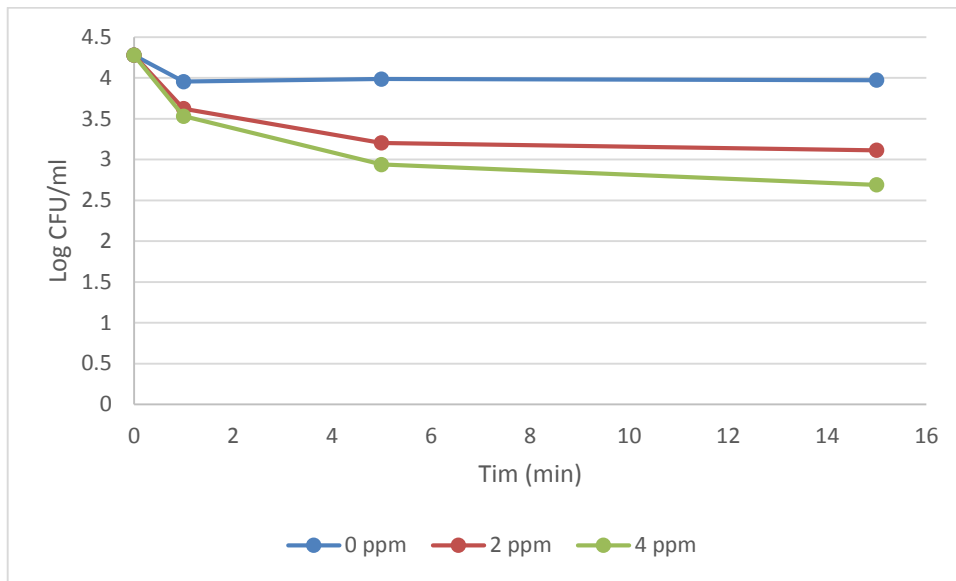


Figure 1: inactivation of *Salmonella* by 2 and 4 ppm nano silver

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