

## Fonterra Trial Data

### Viable Starter Bacteria Counts Before and After Hydrogen Peroxide Dosing.

**Table 1.** Viable Starter Bacteria Counts ( $\log_{10}$ ) in the Cultured Dairy Material Before and After Hydrogen Peroxide ( $\text{H}_2\text{O}_2$ ) Dosing.

Trial Date	Trial #	Starter Bacteria Count before $\text{H}_2\text{O}_2$ ( $\log_{10}$ )	Starter Bacteria Count After $\text{H}_2\text{O}_2$ ( $\log_{10}$ )	Difference ( $\log_{10}$ )
20/04/2010	Sample 1	9.33	7.79	1.55
27/04/2010	Sample 2	9.39	6.98	2.41
11/05/2010	Sample 3	9.11	7.08	2.03
18/05/2010	Sample 4	9.18	6.40	2.78
17/06/2010	Sample 5	9.07	5.97	3.11
21/06/2010	Sample 6	9.37	7.25	2.12
Average		9.24	6.91	2.33

### Conclusion

- Hydrogen peroxide (35%) was dosed at 0.1% w/w reduced starter viability by 2.33  $\log_{10}$  from an original starter count of 9.24  $\log_{10}$  in the cultured dairy material. The viable counts of starter bacteria are reduced but not eliminated by the hydrogen peroxide dosing.