**A Bacterial Reverse Mutation Test of PROJECT O**

**10 SUMMARY AND CONCLUSION**

The objective of this study was to assess the potential of PROJECT O to induce gene mutation.

A bacterial reverse mutation test was performed with 5 test strains of bacteria [*Salmonella typhimurium* (TA100, TA1535, TA98, and TA1537) and *Escherichia coli* (WP2*uvrA*)], using the pre-incubation method with and without metabolic activation. Based on the results of the dose-finding test at 15, 50, 150, 500, 1500, and 5000 μg/plate, the main test was performed at 15.6, 31.3, 62.5, 125, 250, and 500 μg/plate.

Test article precipitation was observed at 500 μg/plate and greater without metabolic activation and at 250 μg/plate and greater with metabolic activation after incubation for 48 hours.

Growth inhibition was not observed up to 5000 μg/plate in any test strain with or without metabolic activation.

In comparison with the negative control, no 2-fold or greater and dose-dependent increase in the number of revertant colonies was observed in any test strain either in the dose-finding test or the main test with or without metabolic activation.

It was concluded that PROJECT O did not induce gene mutation in bacteria under the conditions of this study.