Summary of DF1 Immunoassay Protocol

- 1. Prepare the samples according to the appropriate Application Note.
- 2. Place the anti-Dioxin antibody coated tubes in Grip-Rack and label.
- 3. Prerinse tubes once by **filling** each tube with **reagent grade or bottled distilled water.** Dump water out and tap inverted tubes on absorbent material to remove excess water.
- 4. Add **0.5 mL of Sample Diluent** to each tube using Repeater Pipettor.
- 5. Add 50 μL of standard (0, 0.064, 0.2, 0.64, and 2.0 ppb 2378-TCDD) or 50 μL of prepared sample <u>directly to liquid</u> in each tube. Mix each tube immediately after addition and let stand 2 hours (acceptable performance) or overnight (12 to 24 hours; best performance).
- Remove tube contents and wash 4 times using reagent grade or bottled distilled water plus 0.01% Triton X-100, 1.0 mL per tube for each wash. Tap inverted tubes on absorbent material to remove excess water.
- 7. Add **0.5 mL** of **Competitor-HRP Conjugate** to each tube using Repeater Pipettor. Let stand **15 minutes**.
- 8. Remove tube contents and wash 4 times using 1.0 mL reagent grade or bottled distilled water per tube for each wash. Tap inverted tubes on absorbent material to remove excess water.
- 9. Add **0.5 mL** of **HRP Substrate** to each tube using Repeater Pipettor. Let stand **30 minutes**.
- 10. Add **0.5 mL** of **Stop** to each tube using Repeater Pipettor. **Wipe** outside dry and **read OD of entire batch immediately**.