



## **Standard Methods QC Requirements for Peracetic Acid and Hydrogen Peroxide**

### **Peracetic Acid - SM 4500-PAA -B (2019)**

- Method blank analyzed daily before each batch. MB must recover  $< \frac{1}{2}$  the MRL.
- MRL check standard analyzed daily before each batch. The MRL check standard must recover within  $\pm 50\%$ .
- LFB at mid or high concentration analyzed initially and after every 10 samples. These LFBs must recover within  $\pm 15\%$  of true value, (85-115%).
- Duplicate analysis required with each batch. Duplicate and sample RPD must be  $< 15\%$ .
- ICV once per year with a blank and 5 standards verifying the entire linear range the laboratory uses.
- Note: If the laboratory is using the instrument's residual chlorine curve and performing a conversion calculation to get the Peracetic Acid (PAA) result (either manually or automatically on the instrument),  $\text{KMnO}_4$  standards can be used to verify the curve for the MRL check standard, LFBs, and ICV in the same manner as residual chlorine.

### **Hydrogen Peroxide – SM 4500- $\text{H}_2\text{O}_2$ -B (2020)**

- Method blank analyzed daily before each batch. MB must recover  $< \frac{1}{2}$  the MRL.
- MRL check standard analyzed daily before each batch. The MRL check standard must recover within  $\pm 30\%$ .
- LFB at mid or high concentration analyzed initially and after every 10 sample. The LFBs must recover within  $\pm 15\%$  of true value (85-115%).
- Duplicate analysis with each batch. Duplicate and sample RPD must be  $< 15\%$ .
- ICV once per year with a blank and 5 standards verifying the entire linear range the laboratory uses.
- Note: If the laboratory is using the instrument's residual chlorine curve and performing a conversion calculation to get the Hydrogen Peroxide ( $\text{H}_2\text{O}_2$ ) result (either manually or automatically on the instrument),  $\text{KMnO}_4$  standards can be used to verify the curve for the MRL check standard, LFBs, and ICV in the same manner as residual chlorine.