

Experiment 5: Commercial Spot Test

Synopsis: Students make spot tests of lead content using a commercial stick.

READINGS Pages 269-273 in *Critical Reviews*

Procedure

1. Obtain three commercial lead sticks from the hardware store.
2. To one: apply a drop of 1000 ppm Pb to the end of the stick and let dry. Observe any color developed.
3. To the second, apply a drop of 100 ppm Pb to the end of the stick and let dry. Observe any color developed.
4. To the second: apply a drop of 1000 ppm Zn to the end of the stick and let dry. Observe any color developed.

Report

1. Was there a color difference between 100 and 1000 ppm Pb?
2. Did Zn give a positive test on the lead stick? Wh or why not? What implications might this have for using the gravimetric method of analysis with a soil sample digest?