

# VA Application Note No. V- 9

**Title:** Cadmium, lead and copper in brine and NaOH

**Summary:** Determination of Cd, Pb and Cu in brine and NaOH.

**Sample:** Brine 300 mg/L

**Sample Preparation:** none

## Cadmium, lead and copper:

**Electrolyte:** Acetate buffer, pH = 4.6 (CH<sub>3</sub>COOH/NH<sub>3</sub>)  
**AE:** Pt  
**RE:** Ag/AgCl/KCl 3M  
**Parameters:** DPASV (+50 mV), HMDE  
 $U_{meas} = -700$  mV (90s),  $U_{start} = -700$  mV,  $U_{end} = +30$  mV  
 $E_p$  (Cd) = -600 mV,  $E_p$  (Pb) = -380 mV  
 $E_p$  (Cu) = -120 mV

<b>Results:</b>	<b>Cd</b> ng/L	<b>Pb</b> µg/L	<b>Cu</b> µg/L
<b>Brine</b>	<b>136</b>	<b>13.2</b>	<b>14.3</b>

## Determination of cadmium, lead and copper

