

VA Application Note No. V- 51

Title: Cadmium and lead in herbicide

Summary: Determination of cadmium and lead in herbicide powder containing 37% copper after digestion

Sample: Herbicide powder containing Cu and Zn ethylene-N-N'-bis-dithiocarbamate

Sample Preparation: Wet digestion (H_2SO_4 / H_2O_2) and filtration

Cadmium and lead:

Electrolyte: NaAc buffer, pH = 4.6

AE: Pt

RE: Ag/AgCl/KCl 3M

Parameters: DPASV (+50 mV), HMDE
 $U_{meas} = -700$ mV (60s), $U_{start} = -700$ mV, $U_{end} = -250$ mV
 E_p (Cd) = -560 mV, E_p (Pb) = -380 mV

Results:	Cd μg/g	Pb μg/g
	32.7	194.1

Determination of cadmium and lead

