

VA Application Note No. V- 35

Title: Zinc, cadmium, lead and copper in chilli sauce after digestion

Summary: Determination of Zn, Cd, Pb and Cu in chilli sauce after digestion

Sample: Chilli sauce powder
Sample Preparation: A representative amount of sample is boiled slightly with HCl 10%. The solution is filtered and rinsed with HCl 10%. An aliquot of the solution is diluted in water and digested with UV

Zinc, cadmium, lead and copper:
Electrolyte: NH₄Ac buffer
AE: Pt
RE: Ag/AgCl/KCl 3M
Parameters: DPASV (+50 mV), HMDE
 $U_{\text{meas}} = -1150 \text{ mV}$ (60s), $U_{\text{start}} = -1150 \text{ mV}$, $U_{\text{end}} = +50 \text{ mV}$
 $E_p(\text{Zn}) = -960 \text{ mV}$, $E_p(\text{Cd}) = -560 \text{ mV}$, $E_p(\text{Pb}) = -385 \text{ mV}$,
 $E_p(\text{Cu}) = -100 \text{ mV}$

Results:	Zn μg/g	Cd ng/g	Pb μg/g	Cu μg/g
	12.2	87.6	3.2	7.8

Determination of zinc, cadmium, lead and copper

