

## **Technical Datasheet**

Analysis Name:	Packaging Elements by ICP-MS	
Method Number:	NQA-00.3660	
Scope of Application:	This instruction describes a leeching method for preparing samples from packaging matrices for analysis of Chromium, Cadmium, Mercury, and Lead via LI-00.848 heavy metals testing.	
Description:	Packaging samples are placed in a bottle of leeching solution of diluted Nitric acid. The bottles with samples are placed in a hot water bath at just under boiling temperature for several hours to promote removal of heavy metals from the packaging material and into the leeching solution. Final leeching solution is transferred to an analysis centrifuge tube with filtering as necessary before transfer and is then analyzed by ICP- MS via LI-00.848.	
Sample Weight Required:	25 g of Original packaging material	

Analytical Platform: ICP-MS

Analyte Reported	Unit of Measure	Limit of Quantification	Reproducibility
Cadmium	μg/kg	4.0	35%
Chromium	μg/kg	20.0	35%
Lead	μg/kg	4.0	35%
Mercury	μg/kg	2.0	35%