



PlaySafe Analyzer for Toxic Metals



Know more. Protect more.

Headlines in the news continue to warn us about consumer products such as furniture, dishes, cosmetics, and most importantly, toys, contaminated with lead and other harmful metals. The U.S. Food and Drug Administration (FDA), U.S. Consumer Product Safety Commission (CPSC) and the European Union (EU), along with regulatory agencies in other countries, are especially concerned about protecting the most sensitive population, children, from this threat.

PerkinElmer has worked with manufacturers to develop the PlaySafe™ Analyzer for Toxic Metals, the first complete solution for this analysis. Based on the established inductively coupled plasma optical emission (ICP-OES) technology, to rapidly determine a wide range of metals in toys, the system includes everything the laboratory will need for rapid ramp-up.

The PlaySafe Analyzer for Toxic Metals includes:

- Optima™ 7300 DV ICP-OES instrument, rugged for laboratories in all parts of the globe and supported with service located in over 120 countries
 - U.S. or local controller
 - Calibration standards
 - Customizable standard operating procedures (SOPs) to provide step-by-step guidance on instrument operation associated with this method
 - Instrument software method for the eight elements specified in EN-71-3
 - Application note showing the instrument performance
- Upon installation, users receive walk-through training on operating the method.

Part No.	Description
N0770252	PlaySafe Analyzer for Toxic Metals with controller
N0770253	PlaySafe Analyzer for Toxic Metals (controller obtained locally)

Example of the Type of Results Obtained from the PlaySafe Analyzer for Toxic Metals (results in mg/kg in the original material before sample preparation).

	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Yellow Plastic Car	600	14	104	< DL	3400	14800	6.0	< DL
NIST 1579a High Lead Paint	< DL	45	2.7%	20	200	11.8%	< DL	< DL
NIST 2582 Low Lead Paint	< DL	11	1860	< DL	30	205	6.0	< DL

This solution, part of our extensive Children's Product Safety portfolio, is **made possible by EcoAnalytix™ from PerkinElmer.**

Download the application note and view the webcast at www.perkinelmer.com/toys

PlaySafe Analyzer for Toxic Metals

EN 71-3; ASTM F963; CPSIA 2008

Optima 7300 DV ICP-OES

Simultaneous multi-element analysis capabilities for high sample throughput

Consumables package with calibration standards provides rapid method implementation

Standard operating procedures (SOPs) provide rapid setup and correct use of instrument



Enables **collection of all available spectral data** for every sample regardless of elements being determined, saving time

Specific installation and qualification procedures to get the application up and running quickly