

Why wait  
for Sample  
Prep!

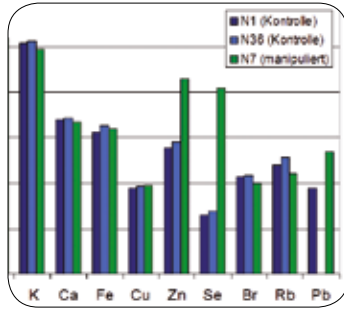
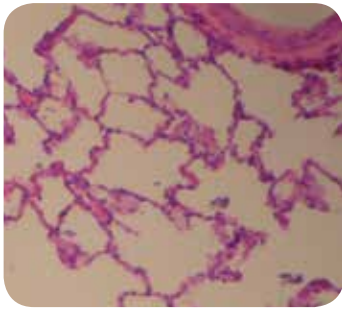
● **S2 PICOFOX** TXRF Spectrometer

Benchtop TXRF for Ultra Low Detection Limits

- Fast sample preparation without digestion
- Concentrations from 0.1 ppb to 100 percent
- Sample amounts down to nanograms
- No consumables, gases or cooling water

**Solutions for Biochemical and Clinical Scientists ...**





### In Vivo Heavy Metal Tests of Mammal Tissues

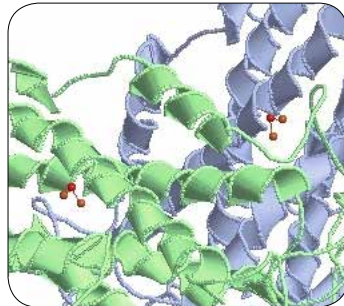
Total reflection X-Ray Fluorescence analysis requires minute sample amounts for the analysis of mammal tissues.

- TXRF is a fast and most simple method for an organ specific multi-element analysis
- Sample digestion is not always necessary, direct sample preparation or just a dilution step is sufficient for achieving quantitative results

### Trace Element Analysis in Blood

The S2 PICOFOX is a versatile tool for the analysis of trace elements in blood samples. Essential as well as toxic elements can be analyzed with accuracy and sensitivity comparable to analytical techniques like AAS or ICP.

- Monitoring of trace element metabolic interactions for the detection of unsuspected nutritional depletions
- Control of chemotherapeutical drugs like platinum



### Trace Metals in Cell and Protein Suspensions

- TXRF features a rapid fingerprint analysis and supports the characterization of oxic or anoxic bacteria
- Less than 1 µl of a protein suspension are necessary for the analysis of metal/sulphur ratios

### Dietary Supplements and Phytoforensics

- After a quick grinding step the halogenide content of raw botanical substances is obtained by TXRF. High levels of bromine indicate illegal fumigation
- Determination of small metal splinter contamination which is evidence of inappropriate transportation

● **Bruker Nano GmbH**  
 Berlin · Germany  
 Phone +49 (30) 670990-0  
 Fax +49 (30) 670990-30  
 info.bna@bruker.com

**Bruker AXS Inc.**  
 Madison, WI · USA  
 Phone +1 (608) 276 3000  
 Fax +1 (608) 276 3006  
 info.baxs@bruker.com



[www.bruker.com](http://www.bruker.com)

[www.s2picofox.com](http://www.s2picofox.com)