

The background of the top section features a blue-tinted image. On the left, a white laboratory dish is being held, with a small, circular, yellowish-brown sample inside. To the right, a portion of a periodic table is visible, with elements like Ni, Cu, Zn, Ga, Ge, As, Se, Br, Kr, Pd, Ag, Cd, In, Sn, Sb, Te, I, Xe, Pt, Au, Hg, Tl, Pb, Bi, Po, At, Rn, and others labeled. The text "Why wait for Sample Prep!" is overlaid in white on the right side of this image.

Why wait
for Sample
Prep!

S2 PICOFOX

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

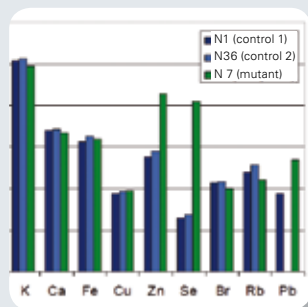
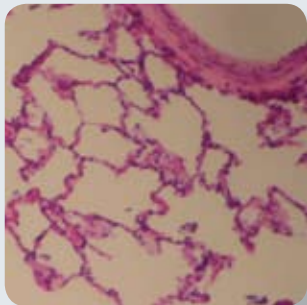


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think forward

XRF

Solutions for Biochemical and Clinical Scientists



In Vivo Heavy Metal Tests of Mammal Tissues

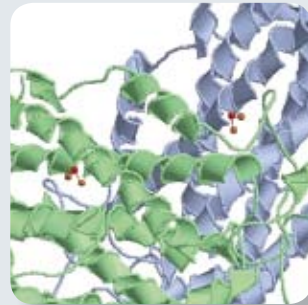
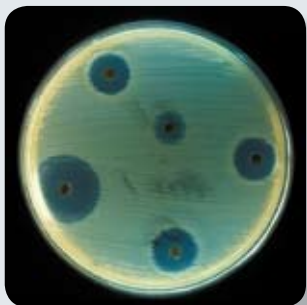
Total reflection **X-Ray Fluorescence** analysis requires minute sample amounts for the analysis of mammal tissues.

- 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 chemotherapeutic 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

More information required?

Please ask for a hardcopy of our lab reports.

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