



Bruker **AXS** Inc.

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**FOR IMMEDIATE RELEASE**

## **Bruker AXS Introduces the *MI ORA™*, a Compact Tabletop $\mu$ -XRF Spectrometer**

CHICAGO, Illinois -- March 9, 2009 – At Pittcon® 2009, Bruker AXS presents the *MI ORA™*, the most compact tabletop micro X-Ray Fluorescence ( $\mu$ -XRF) spectrometer available today for non-destructive analysis of gold and other precious metals. The *MI ORA* complements the *MI MISTRAL™*, which was introduced in January 2009. While the larger *MI MISTRAL* is more versatile with regard to sample size and analytical performance, the *MI ORA* is a convenient tool for routine analysis of gold and jewelry, especially where bench-space is limited.

The sample is placed in a fully radiation protected sample chamber. Exact positioning is supported by a video microscope. The excitation beam, generated by a high-brilliance micro-focus X-Ray tube, can be collimated down to 300 microns, thus enabling contactless and non-destructive analysis of inhomogeneous, small and intricately shaped samples. A large area X-ray detector with high count rate capability is used for detection of the fluorescence radiation. This permits precise and accurate determination of all elements of an alloy in less than one minute of measurement time.



Due to its very simple concept of operation, supported by the intuitive *XSpec™* software, the *MI ORA* is very easy to use. After only a short introductory training, non-technical users can obtain fast and reliable results, which can be displayed either as elemental or gold alloy concentrations, or in karat to display the purity of gold alloys, or even as the monetary value of the sample analyzed. Specially prepared calibrations warrant high accuracy. In addition, standardless quantification models, based on fundamental parameters, are available, permitting analysis of alloys with unknown composition. The stability of the instrument is constantly monitored and automatically controlled. The *MI ORA* is easy to maintain, does not require any consumables and has very low power consumption.

### **For Further Information:**

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