

HANDHELD RAMAN SPECTROMETER



# A laboratory in the palm of your hand

IRIS Biotech has consolidated much of their RMID and product retesting on a handheld Raman spectrometer

Boosting efficiency with handheld Raman spectroscopy: Iris Biotech, a German manufacturer and supplier of fine chemicals, has consolidated much of their regular QC testing on a single, handheld Raman spectrometer. This device, a MIRA P by Metrohm, allows the company to identify and verify the quality of materials in just a few seconds.

**Metrohm  
means ...  
Spectroscopy!**



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«We tested several devices, and only the device from Metrohm met our expectations.»

Markus Ott, Head of Laboratory at Iris Biotech

Iris Biotech, headquartered in Marktredwitz, Germany, is a leading manufacturer and supplier of fine chemicals primarily used in research and development. The company focuses on peptide synthesis but also offers a wide variety of linker technologies and drug delivery products as required, e.g., for cancer research and vaccine development. The company was looking for a solution to make their quality control of incoming goods more efficient and would allow them to quickly perform regular re-tests of their products.

«We tested several devices, and only the device from Metrohm met our expectations» says Markus Ott, Head of Laboratory at Iris Biotech, referring to



Markus Ott, Head of Laboratory at Iris Biotech. The MIRA P is shown here with the Vial Holder Attachment.

the compact size of MIRA P and the high resolution, precision, and reproducibility of the measurements.

What also convinced Markus Ott and his team is the convenience and flexibility that a range of dedicated sampling attachments add to the device. A smart lens automatically confirms the MIRA P is in the correct measuring mode when sampling substances like powders or liquids. This allows measuring substances even through glass bottles or translucent plastic bags. Providing the unique spectrum of the measured substance or target analyte in a mixture, MIRA P matches this molecular fingerprint against thousands of entries in the instrument's database.



The integrated barcode scanner supports the capability of MIRA P to quickly test 100% of a batch.

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«As samples are measured as are, 100% of a batch can be quickly and reliably tested in a matter of minutes.»

Markus Ott, Head of Laboratory at Iris Biotech

The substance is identified in seconds and MIRA P also allows the user to verify its quality with a pass/fail test.

Markus Ott gives a practical example of the value of his MIRA P citing a rare case when the instrument consistently flagged the content of a batch of incoming material. Subsequent tests in the laboratory showed that MIRA P had correctly identified the substance, however, the batch had been mislabeled by the supplier accidentally attaching the wrong label to the container.

Markus Ott highlights the speed of his MIRA P. As samples are measured as are, 100% of a batch can



Using the smart lens of MIRA P, direct sampling of powders through translucent plastic bags is possible.

be quickly and reliably tested in a matter of minutes in the warehouse or any other place else.

Even though Iris Biotech affords a laboratory to perform other tests, MIRA P and handheld Raman spectroscopy have made a big difference to the way the company handles RMID and re-testing of their products. Markus Ott and his team certainly wouldn't like to perform their routine QC any other way again. «It is a great device» Markus Ott says, summarizing his experience with MIRA P.



Special thanks go to Dr. Karin Rustler, CMSO, and Steffen Tropitzsch, CEO, from Iris Biotech, who opened the doors of their company and made this article possible.

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