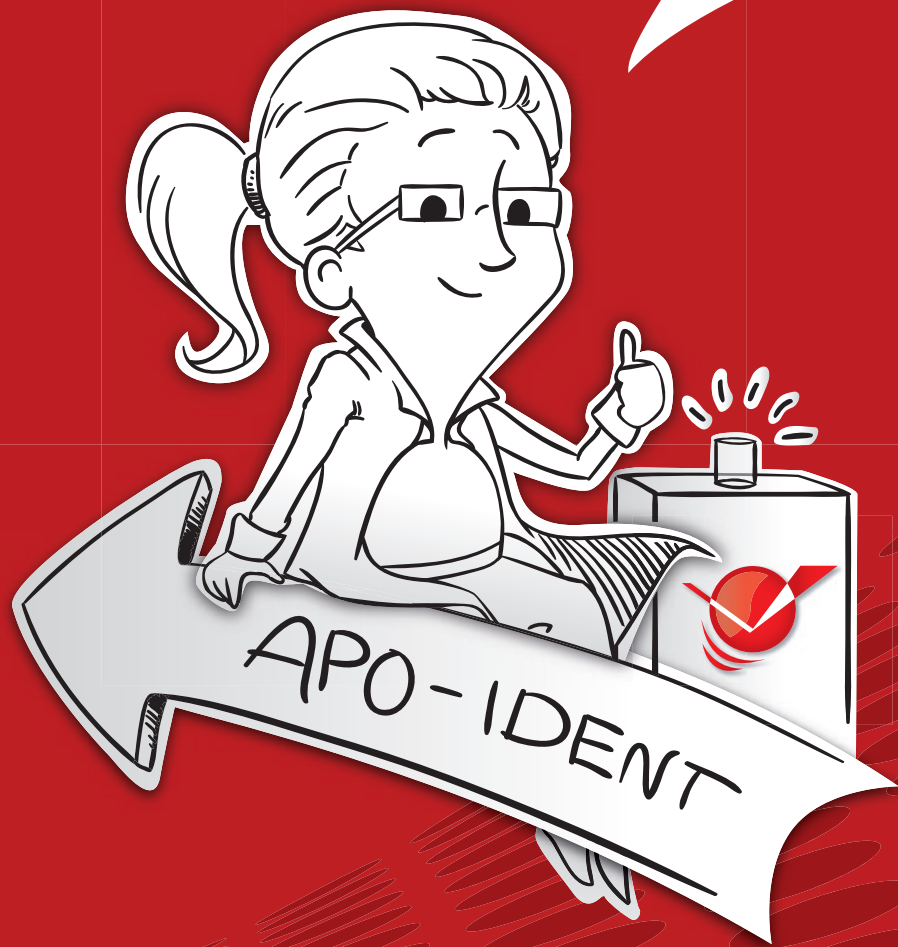


EVERYONE
CAN TEST SIMPLY!



Technical data:

Analytical method	Near-infrared spectroscopy
Measuring time	<15 seconds
Spectral range	1,000–1,900 nm
Spectral resolution	10 nm
Wavelength stability	±1 nm
Automatic recalibration/ equipment check	Integrated wavelength and white standard
Operating temperature	15–35 °C
Dimensions	203 × 279 × 219 mm
Weight	5.2 kg
Interface	USB, Typ B
Operating voltage	230 V~/50Hz/60W
Software	QuickStep Apo-Ident
System requirements	PC with Windows Vista, Windows 7 (apart from Starter version), Windows 8, Windows 10, Linux or Mac OS X available upon request, min. 1 GB RAM, min. 1.6 GHz Pentium, 0.5 GB disk space

- Scope of delivery:**
- Hardware – Apo-Ident
 - Software – QuickStep Apo-Ident
 - 5 sample jars
 - 1 transreflectance inset for liquids, pastes and emulsions
 - 2 reference standards, 1 distance ring

- Reference databases:**
- More than 1,100 pharmaceutical raw materials
 - Solid
 - Semi-solid/liquid
 - Pastes and emulsions
 - Granulates
 - Drugs

HiperScan GmbH

HiperScan GmbH was founded in 2006 as a spin-off from the Fraunhofer Institute for Photonic Microsystems (IPMS) in Dresden. The new innovative scanning-grating technology at IPMS forms the heart of the near-infrared (NIR) spectrometer developed by HiperScan. By reducing the investment costs considerably, the analytical systems allows the benefits of NIR technology to be applied in a wide range of new areas. Today, the HiperScan company represents sophisticated technology and applications to analyse substances. Apo-Ident was thus specifically customised to identify pharmaceutical raw materials in pharmacies.

Version 08/2015



apo-ident



Apo-Ident makes the difference

Difficult raw materials inspection was yesterday ...





Identifying pharmaceutical raw materials as a part of routine pharmaceutical operations is labour-intensive and expensive. Test specifications are becoming more and more complex, and a shortage of staff and increased workloads add further time pressure. The German Pharmacy Operation Ordinance explicitly allows the use of alternative, innovative identification methods which considerably reduces the work needed in the pharmaceutical laboratory. In 2014, the German Association of Pharmacy Inspectors (APD) renewed and further detailed its recommendation from 2013 on the use of near-infrared (NIR) spectroscopy in pharmacies. It was unanimously

decided by the APD in Bremen on 1st October 2014 at the annual meeting on NIR that:

"The use of near-infrared is a recognised identification method in accordance with Ph. Eur Monograph. 8. In order to use NIR equipment to verify the identity of pharmaceutical raw materials in the pharmacy, the equipment used must be adequately and demonstrably validated. The quality of the database used in the equipment by the manufacturer is decisive. If the validation has been demonstrated and recognised, then NIR can be a suitable method to identify certain raw material substances in the pharmacy."

With more than 1,100 pharmaceutical raw materials in its library, Apo-Ident is the most comprehensive and, above all, fully validated reference database that includes evidence of robustness and 100% specificity, traceable to certified pharmaceutical raw materials. In accordance with the APD resolution, the quality of the Apo-Ident database is transparently documented in a 4,000-page validation report.

... Apo-Ident is today! Substance detected and the problem is resolved

-  **Identity testing** of prescription raw materials in your pharmacy using the NIR analysis system in accordance with Ph. Eur Monograph. 2.2.40, Sections 6 and 11 of the German Pharmacy Operation Ordinance*
-  **Easy to use** – anyone can do it with just 5 intuitive steps to produce a record
-  **Quickly ticked off**
Test results + record at the touch of a button
-  **Added value!**
More time for other essential things.



completely
validated

 apo-ident worth!

Identification by using Apo-Ident

That's the easiest way to do it

Apo-Ident analytical system is a near-infrared (NIR) spectrometer specifically designed for pharmaceutical analysis operations. The integrated and validated reference database allows you to identify most of your pharmaceutical raw materials within seconds.

By using Apo-Ident, you can handle a troublesome yet obligatory task in speed of light. At the same time you prevent from accumulating un-needed materials in the incoming goods area and create more space for your staff. You and your team can concentrate on essential tasks in your pharmacy and deliver your customers with the required prescription in time.



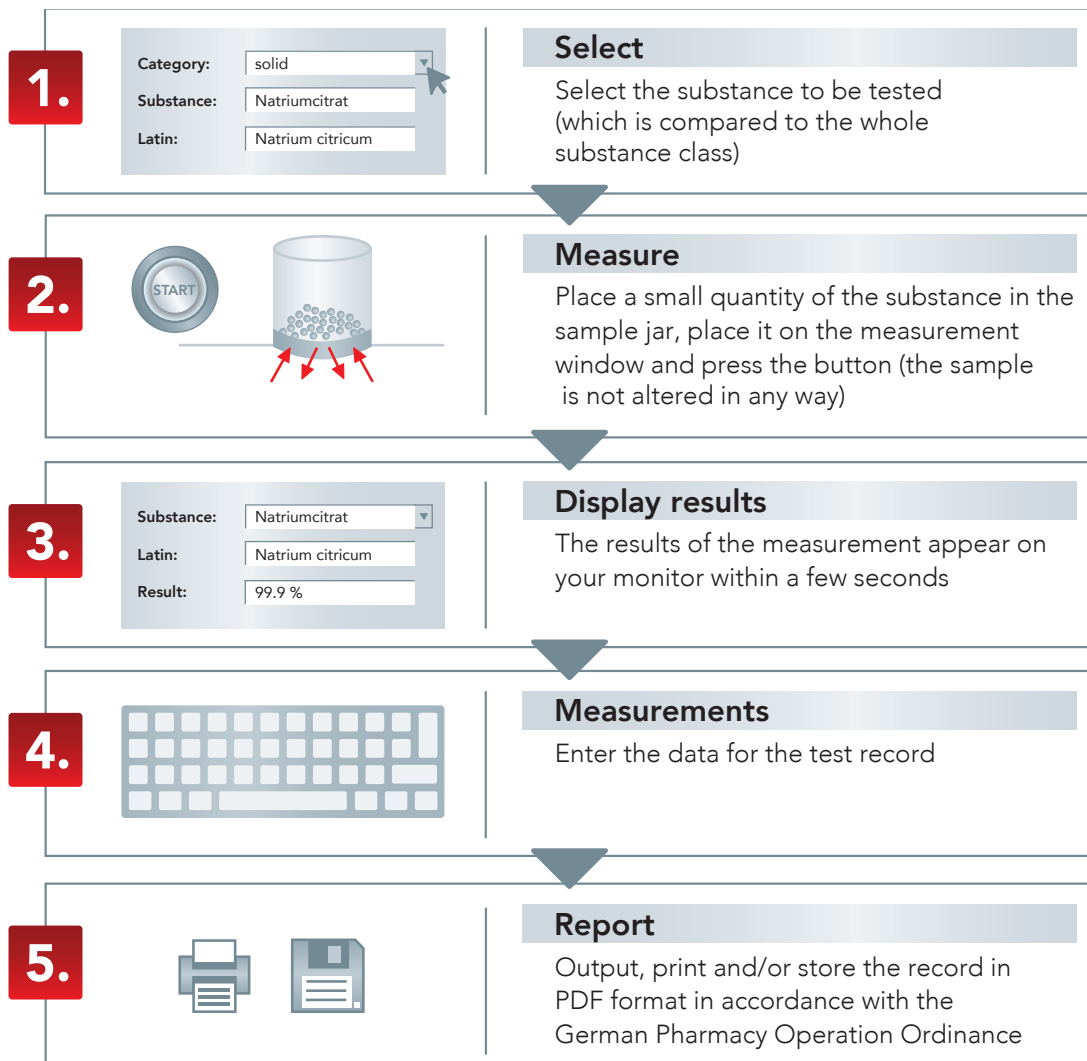
Use the following benefits in your pharmacy with Apo-Ident:

- **Raw materials testing within seconds**
in accordance with Ph. Eur Monograph 2.2.40, Sections 6 and 11 of the German Pharmacy Operation Ordinance*
- **Most extensive and fully validated reference database**
including evidence of robustness and 100% specificity, traceable to certified pharmaceutical raw materials
- **More than 1,100 pharmaceutical raw materials** – For solids, semi-solids/liquids, pastes and emulsions, granulates and drug forms (including over 4,000 pages of validation documentation as a PDF file)
- **Automatic record creation + label**
for its container (in accordance with the German Pharmacy Operation Ordinance)
- **Continuous batch maintenance**
in accordance with Ph. Eur Monograph 2.2.40
- **Transportable –**
Can be used in several pharmacies (no direct internet connection required)
- **Self-explanatory user interface –**
To enter the batch details, central pharmaceutical number, tester, etc. including extensive search options for archived data
- **No cross-contamination**
No contamination of the original substance resulting from sample extraction
- **Automatic self-inspection**
Automatic internal referencing

* In Austria: in accordance sections 5 of the pharmacopoeia law 2012 and sections 8 Pharmacy Operation Ordinance 2005

Result in 5 easy steps –

Test results + record at the touch of a button



Technology

The technology on which Apo-Ident is based is the innovative technique of near-infrared (NIR) spectroscopy.

The heart of the system is the patented scanning-grating technology developed by the Fraunhofer Institute for Photonic Microsystems in Dresden. In this universally applicable, MEMS-based process, substances are irradiated with near-infrared (NIR) light, which penetrates deeply into the sample. This eliminates the need for

special sample preparation. In addition, a large volume is tested, not just the surface. All substance-specific characteristics are reproduced in the reflected light and these can then be analysed in the spectrometer to identify the raw materials. The QuickStep software integrated in the Apo-Ident analyser system compares the recorded spectrum with all the reference spectra in the database and then displays the result of the identification testing.