new art laboratories

nal von minden



Available parameters:
CRP, vitamin D, FOB (quantitative), influenza and strep A (qualitative)

Colibri *plus*

point-of-care reader

The smallest analyser in the world

NADAL® medical rapid tests

For just about every need

- ✓ Allergies & autoimmune
- ✓ Infection & inflammation
- ✓ Cardiovascular system
- ✓ Obstetrics & fertility
- ✓ Tumour markers
- ✓ Blood analysis
- ✓ Tropical infections & parasites
- ✓ Sexually transmitted infections
- ✓ Urine analysis

Our sales team will be happy to answer any questions you may have by telephone: 0941 - 29010 0 or fax: 0941 - 29010 50 or by email at vertrieb@nal-vonminden.com



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nal von minden

– Your partner for professional diagnostics

We help you care!

With outstanding and certified product quality, an extensive portfolio and excellent customer service and ideas, nal von minden GmbH has been setting standards in the field of medical diagnostics for over 40 years. In the future, we aim to be the most innovative company in our field, as well as your first point of contact for all things *in-vitro* diagnostics. In order to achieve this, we are focussed on research, development and steady growth.
We currently have a presence in 7 locations throughout Europe, as well as several subsidiary companies and an extensive network of account managers and field representatives. This enables us to offer you tailored solutions and advise you both directly and personally anywhere in the world.



CEO
of nal von minden GmbH:
Lukas Eder

Commitment to quality

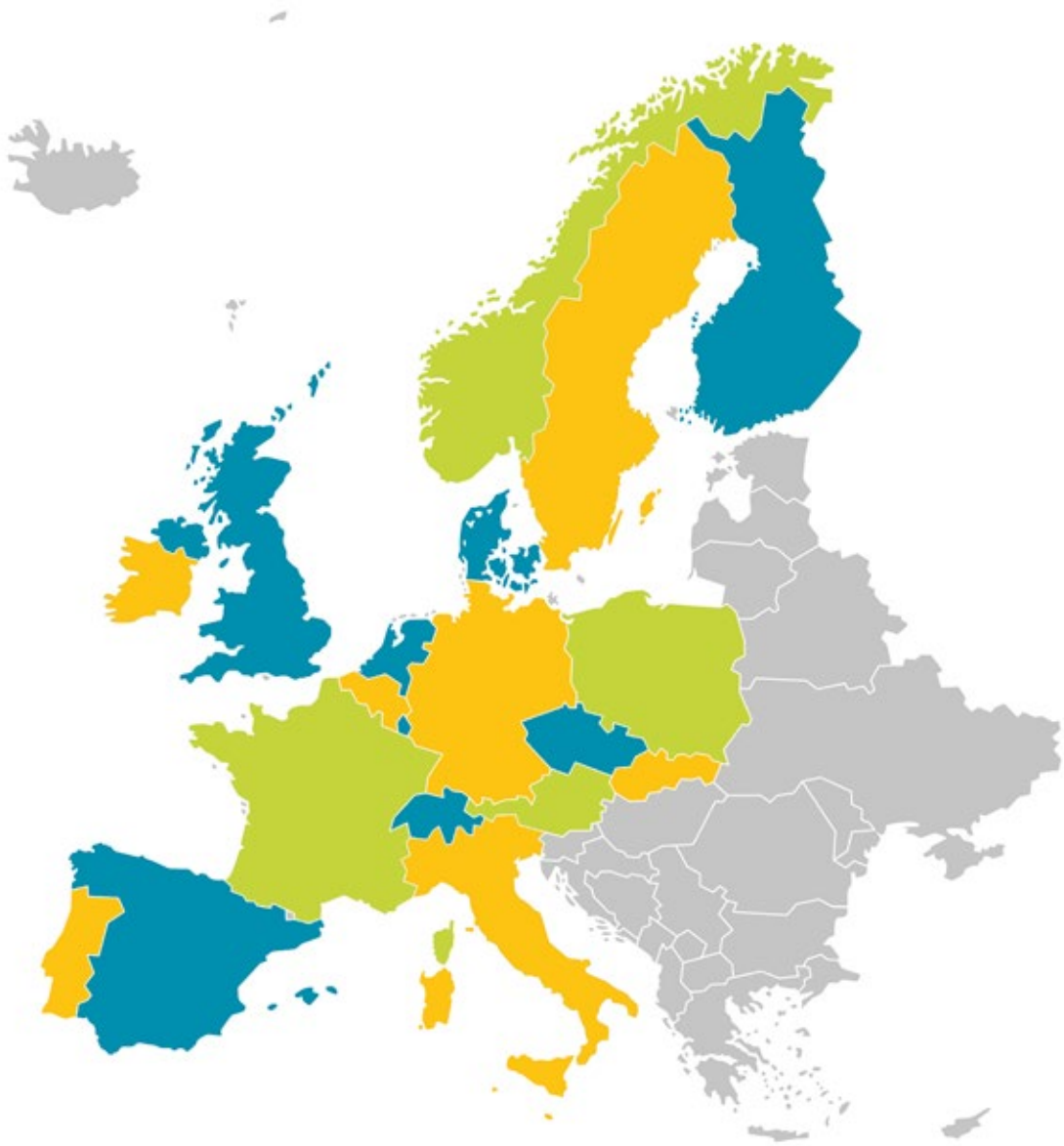
We operate with a sense of responsibility not only because it is our duty, but out of deep conviction. As a manufacturer of rapid tests for medical and drug analytics, we are keenly aware of the impact our products can have. For this reason, their quality and our service are not only of utmost priority to us, but also a matter that is close to our heart. Our Quality Management System has been certified according to both EN ISO 13485 and ISO 9001 since 2003, and is audited yearly by TÜV Rheinland. Internal audits, a comprehensive process landscape and corrective and preventative action system also serve to ensure that our high standards are maintained.
We help you care! - with outstanding product quality, an excellent price-performance ratio, personal consultants and fast service. We look forward to working with you!

Your nal von minden team

nal von minden:
Here for you all over the world

nal von minden GmbH currently employs around 230 employees throughout seven European countries. Do you speak German, English, French, Spanish, Italian, Portuguese, Turkish, Czech, Slovakian, Polish, Dutch, Danish, Swedish, Norwegian or Finnish?

We have 13 country teams ready to support you in your native language. The values and cultures of over 20 nations flow through the veins of our company.





Colibr*i* plus point-of-care reader

Efficient analyses wherever you are

At just **4x4 cm**, the nal von minden Colibr*i* plus is the optimal tool for the qualitative and quantitative analysis of rapid tests. It provides **fast** and **precise** results and is a **cost-effective** solution for your medical practice. The device is extremely user friendly and operated using just one button. There are no waiting times and quality controls are easy to carry out. Data can be transferred easily to a PC via Bluetooth for documentation.

- ✓ Small (4 x 4 x 4 cm) and lightweight (40 g)
- ✓ Fast
- ✓ Precise
- ✓ User friendly (operated using just one button)
- ✓ Simple quality control
- ✓ Documentation of results via Bluetooth transfer to PC
- ✓ Parameters currently available: CRP, vitamin D, FOB (quantitative), influenza and strep A (qualitative)

Evaluation procedure

1. Turn on the device by pressing the operating button. The last saved result will be shown.
2. Pressing the button again will take you to the start screen.
3. Press the button again to carry out a measurement. Depending on how long the button is pressed for, the reading will start immediately (quick press < 1 sec) or after a programmed time (press and hold ≥ 1 sec).

   The Colibri plus will prompt you to place an RFID card with lot-specific calibration data on top of the device.
4. Place the provided RFID card onto the Colibri plus prior to each reading
5. Once the data has been successfully transferred, the reading can commence.
6. Place the Colibri plus over the test and press the button again. Information on sample collection and test procedures can be found in the package inserts.
7. Depending on how long the button is pressed for, the timer or a reading in progress will be displayed.
8. After ca. 3 seconds, either qualitative or quantitative results will be displayed on-screen.





Internal storage enables over 100 analyses to be saved. All data can be transferred to a PC via Bluetooth. The DataViewer software enables a clear overview of the data.

Functionality check

1. Place the Colibri plus over the QC cassette provided. (The QC cassette has a shelf life of 2 years and can be used repeatedly.)
2. Place the accompanying RFID card onto the Colibri plus in order to transfer the data.
3. The Colibri plus will show that the functionality check was successful.





For qualitative CRP results in the range of 2-150 mg/L

C-reactive protein (CRP)

Why is a CRP test important?

CRP is particularly suitable for distinguishing between bacterial and viral infections, as CRP values rise sharply in the case of severe bacterial infections. Through evidence-based, more targeted prescribing of antibiotics, the test is useful as an aid in the fight against antibiotic resistance. The use of CRP rapid tests for this purpose has been confirmed in the 2016 publication of *Lancet Global Health*.







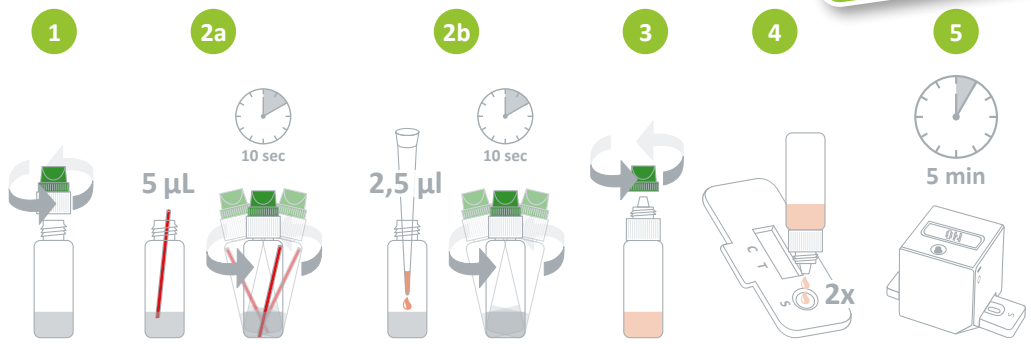
Quantitative CRP values in just 5 minutes

Monitoring long-term CRP values provides much more information than a single measurement. With the help of the Colibr*i* plus point-of-care reader and the NADAL® CRP quantitative test cassettes, CRP values between 2 mg/L and 150 mg/L can be determined quantitatively.

CRP [mg/L]	Interpretation
< 10	Low-grade inflammation - causes can include obesity, *Diabetes mellitus* type 2 and atherosclerotic cardiovascular illnesses.
10 - <40	Mild inflammation - causes can include a local abscess, a small operation or accident trauma, heart attack, deep vein thrombosis, inactive rheumatic illnesses, a metastasised malignant tumour and certain viral infections.
40 - <100	Moderate inflammation - causes can include severe inflammatory conditions such as purulent cystitis, bronchitis, dental suppuration, urinary tract infections and genital infections.
≥ 100	High-grade inflammation - causes can include acute generalised infections stemming from bacteria and fungus (sepsis), as well as severe tissue damage after polytrauma or major surgery.

Test procedure:

Sample material: Whole blood/serum/plasma



Product overview:

Product	Product code	Pack size
NADAL® CRP Quant Test cassette (2-150 mg/L)	312024NBUL-20	20 tests
Positive control	311025	12 x 1 mL level 1
Positive control	311026	12 x 1 mL level 3
nal von minden Colibr*i* plus point-of-care reader (incl. USB cable + DataViewer Software + QC cassette)	60100	1 device



For quantitative results in the range of 20 to 750 ng/mL (2-75 µg/g)

Faecal occult blood (FOB)

Why is an FOB test important?

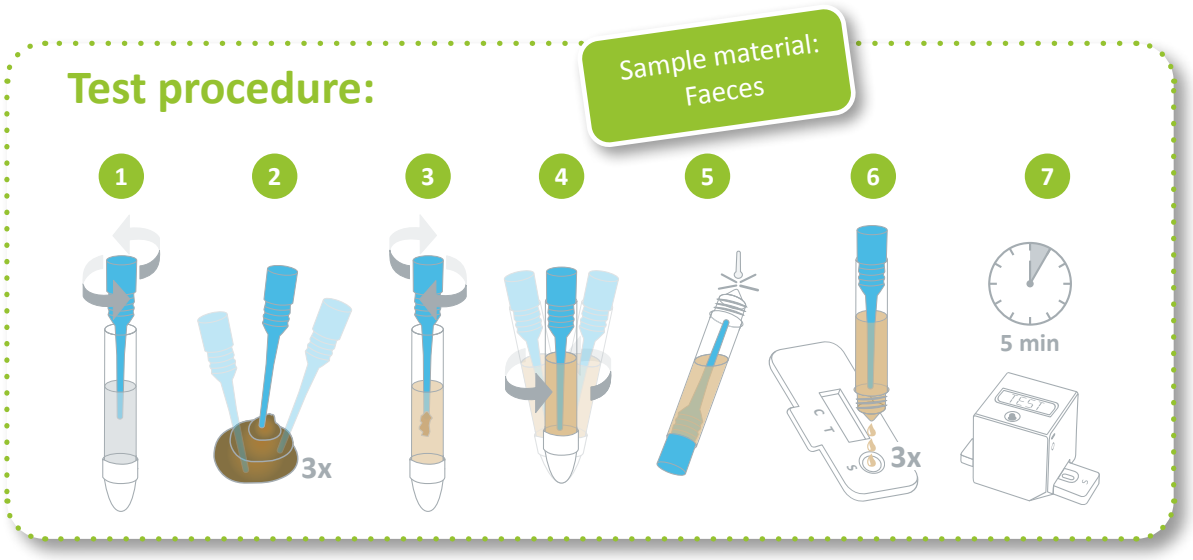
Occult blood - invisible blood present in faeces (FOB, faecal occult blood) - can be a helpful indicator of worrying changes in the gut in people over 55. Bleeding can, for example, suggest intestinal polyps. Quantitative values (between 20 and 750 ng/mL) support reliable assertions regarding the risk of developing a colorectal carcinoma.





Which values are of interest?

A quantitative FOB value is very useful for making a diagnosis and for monitoring patients with colorectal cancer. It is recommended to adjust the cut-off depending on the purpose of its use (whether the test is used for screening or supporting a diagnosis, and according to national guidelines, as well the age and sex of the patient). The lower the cut-off , the higher the sensitivity and the lower the specificity.



Product overview:

Product	Product code	Pack size
NADAL® FOB Quant test cassette (20-750 ng/mL)	272059NBUL-20	20
nal von minden Colibr*i* plus point-of-care (incl. USB cable + DataViewer software + QC cassette)	60100	1 device



- ✓ Storage at room temperature
- ✓ Requires only 10 µL blood obtained by fingerstick
- ✓ Quantitative results in 15 minutes
- ✓ Excellent aid for monitoring treatment

Vitamin D

Why is a vitamin D test important?

In the winter months it can be particularly difficult to soak up the sun rays we need. As these rays are essential to our body's ability to produce vitamin D, deficiencies can often occur in the autumn and winter months. According to the Robert Koch Institute in Germany, at least one in two adults isn't getting enough vitamin D. Vitamin D is fat-soluble and plays an important role in bone growth and the maintenance of bone stability.

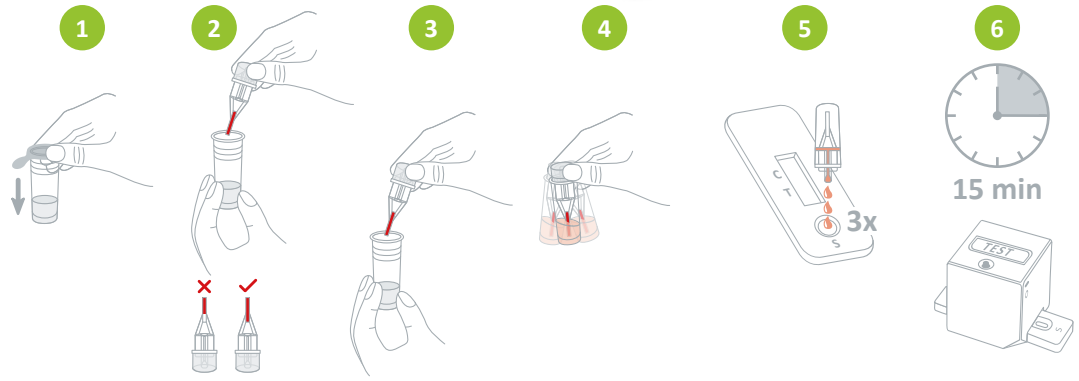
A sufficient vitamin D supply protects against osteomalacia and osteoporosis. It is also thought to have a regulating influence on the immune system (protecting against infections), as well as cardiovascular illnesses, *Diabetes mellitus* type 2 and tumours. Test your patients directly in your practice!



25-OH Vitamin D [ng/mL]	Interpretation
< 10.0	Deficiency with a heightened risk of illnesses such as rickets, osteomalacia and osteoporosis.
10.0 - < 30.0	Insufficient supply with potential consequences for bone health.
30.0 - < 100.0	Sufficient supply in terms of bone health.
≥ 100.0	Excessive supply, which can have negative effects on health.

Test procedure:

Sample material:
10 µL capillary blood



*The sample and buffer must be completely mixed by shaking the tube downwards with a jerking motion.

Product overview:

Product	Product code	Pack size
NADAL® Vitamin D Quant test cassette (3-100 ng/mL)	2260004NBUL-25	25 tests
Positive control	2260006	1 x 0.05 mL level 1 (lyophilised) 1 x 0.05 mL level 2 (lyophilised)
nal von minden Colibri plus point-of-care reader (incl. USB cable and Data-Viewer Software + QC cassette)	60100	1 device



- ✓ Clear results regardless of lighting conditions
- ✓ Integrated timer function
- ✓ Objective evaluation
- ✓ Qualitative results

Influenza A/B

Why is an influenza test important?

Influenza can be highly dangerous for those belonging to risk groups (older individuals, children, patients with chronic illnesses). Due to unspecific clinical symptoms which can also occur with other viral infections, it is advisable to use an influenza A/B rapid test for a differential diagnosis. If a test is carried out within 48 hours of the onset of symptoms and the virus is detected, treatment with antiviral medication is still possible.

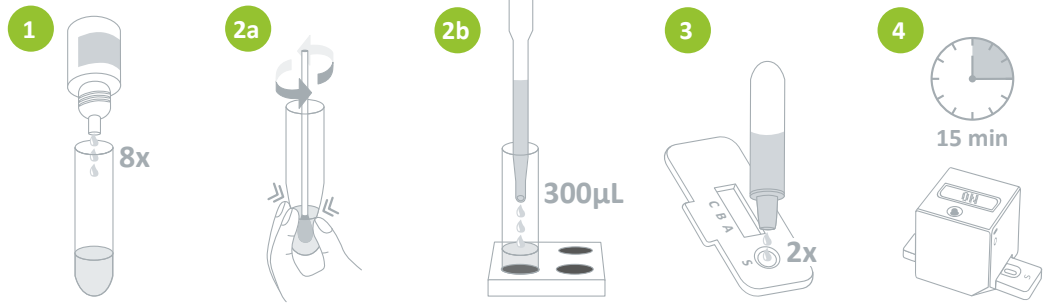


Why is a diagnosis important?

Influenza can lead to severe complications such as bronchitis and pneumonia, especially in children, older people and patients with chronic respiratory disease. As there are a number of other viral infections that can cause influenza-like symptoms, laboratory tests are required in order to differentiate between influenza and other acute respiratory illnesses. Effective antiviral medications are available, but work best when administered early (within 48 hours of the onset of illness). With a sensitivity of almost 100 % after 3 days, virus isolation remains the gold standard for an influenza diagnosis. However, patient healthcare and economic costs can be greatly improved through the use of fast, specific and sensitive tests for antigen detection which enable the implementation of successful antiviral treatment.

Sample material: Nasal aspirate, rinse fluid and swab/ nasopharyngeal swab

Test procedure:



Product overview

Product	Product code	Pack size
NADAL® Influenza A/B Scan test cassette	242006NBUL-10	10 tests
nal von minden Colibri plus point-of-care reader (incl. USB cable + DataViewer software + QC cassette)	60100	1 device



Group A *Streptococcus* (Strep A)

Why is a strep A test important?

Group A beta-haemolytic *Streptococci* (bacterial strains) are responsible for a number of infections of the upper respiratory tract, such as scarlet fever or pharyngitis (tonsilitis), which exhibit relatively unspecific clinical symptoms. The strep A rapid test is an effective means of differentiation from viral infections. Its use means the infection can be diagnosed and treated in its early stages, and severe symptoms prevented.



Why is a strep A test important?

We have developed the NADAL® Strep A Scan test to support you even further in making a correct diagnosis. This test, in conjunction with our Colibr*i* plus reader, enables even weak positive results to be clearly read regardless of lighting conditions. Additionally, the integrated timer function replaces the usual waiting time. The previous test result can be retrieved at any time.

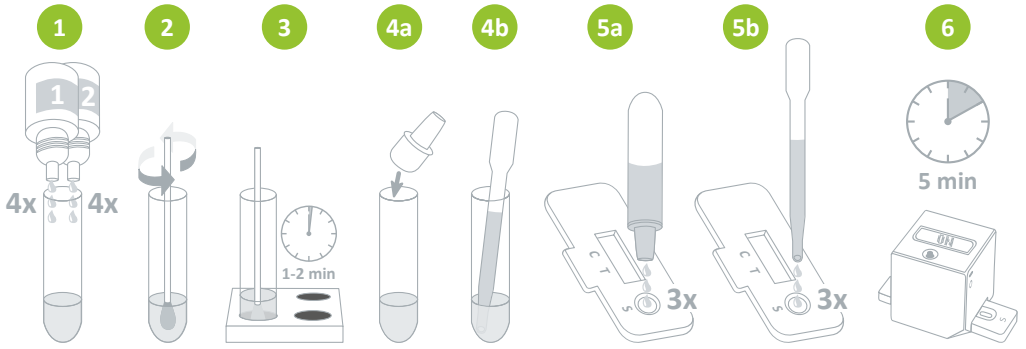
The early detection of streptococcal pharyngitis and subsequent intervention is particularly important for children, as it enables a treatment that:

- ✓ shortens the course of the illness
- ✓ reduces the severity of symptoms
- ✓ reduces the risk of complications
- ✓ lowers the chances of passing on the infection.

An acute streptococcal infection, if left untreated, can be contagious for up to 3 weeks. An effective antibiotic treatment reduces this period to 24 hours.

Sample material: Throat swab

Test procedure:



Product overview

Product	Product code	Pack size
NADAL® Strep A Scan Test cassette*	222049NBUL-20	20 tests
222049NBUL-20 point-of-care reader (incl. USB cable + DataViewer software + QC cassette	60100	1 device

*Positive control included with kit

Technical data

Use	Reader for lateral flow assays
Test format	Test cassette
Measurement results	Quantitative, semi-quantitative or qualitative measurement results; Analysis of up to 3 parameters per cassette possible
Dimensions	40 mm x 40 mm x 40 mm (Length x width x height)
Weight	40 g
Display	LCD; 14-segment display
Operation	1 button operation
Storage capacity	More than 100 test results
Measurement time	ca. 3 seconds
Power supply	USB-C cable, rechargeable lithium-ion battery
Interface	USB-C, Bluetooth 5.0, suitable for data transfer to PC/laptop
Configuration	Lot-specific configuration using RFID technology
Measurement field size	min. 4 mm wide max. 18 mm long
Lighting	Wavelength 525 nm
Transducer	Loudspeaker
Ambient temperature (during operation)	10 °C - 35 °C
Humidity (during operation)	20 % - 85 %
Storage temperature	-30 °C - 80 °C
Storage humidity	20 % - 85 %
Timer function	Stored with calibration data
Protective class	IP 20
QC set storage	Store in lightproof packaging Store at room temperature (+18°C to +22°C) Maximum relative humidity 40 %

Overview of featured products

In addition to the products outlined below, we offer a large range of other rapid tests along with various pack sizes and practical readers for the automatic evaluation of tests.

Product	Sample material	Test time	Product code	Pack size
NADAL® CRP Quant Test cassette (2-150 mg/L)	Whole blood/serum/plasma	5 min	312024NBUL-20	20
Seronorm™ CRP positive control			311025	12 x 1 mL level 1
Seronorm™ CRP positive control			311026	12 x 1 mL level 3
NADAL® FOB Quant test cassette (20-750 ng/mL)	Stool	5 min	272059NBUL-20	20
NADAL® Vitamin D Quant Test	Whole blood/serum	15 min	2260004NBUL-25	25
Vitamin D positive control			2260006	1x 0.05mL level 1 1x 0.05mL level 2
NADAL® Influenza A/B Scan Test cassette	Nasal aspirate, rinse fluid and swab/ nasopharyngeal swab	15 min	242006NBUL-10	10
NADAL® Strep A Scan Test cassette	Throat swab	5 min	222049NBUL-20	20
nal von minden Colibri plus point-of-care reader (incl. USB cable + DataViewer software + QC cassette)			60100	1

Contact

We would be happy to visit you in your practice for a detailed consultation. Contact us to receive your personalised offer:

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