

R-Biopharm AG

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RIDA[®] SMART APP

User manual



R-Biopharm – for the safety of your analysis.

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Manual for
RIDA®SMART APP
Version 1.0.0
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1 Introduction

1.1 Purpose of the RIDA®SMART APP

The RIDA®SMART APP is for general lab use and for the quantitative determination of food and feed parameters. The application can only be installed on a Nexus 6 Smartphone from Google Inc. The app works quickly, is easy to operate and determines accurate, reliable results.

Please note that the RIDA®SMART APP Mycotoxins was developed for the evaluation of R-Biopharm RIDA®QUICK RQS standard products and can only be used in combination with the R-Biopharm RIDA®QUICK RQS test kits. All additional documents and required accessories (plastic cover and label) for the evaluation with the RIDA®SMART APP will be delivered with your standard RIDA®QUICK RQS test kit.

1.2 About this manual

The user manual guides you in detail through the installation and the application of the RIDA®SMART APP Mycotoxin. It is recommended to thoroughly read the manual before first use of the program.

1.3 General information

A network connection is required to install and activate the RIDA®SMART APP. Once this is done the application can be used in full without any requirement for a network connection, SIM card or data contract. A network connection is only required if you need to download additional documents or to export data and for technical service requests. A network connection can be established via Wi-Fi, Bluetooth or USB. Also, a SIM card and a suitable mobile or data contract can be used if necessary. More information about how to set up an internet connection on the Nexus6 device can be found at:

https://support.google.com/nexus/topic/3416342?hl=en & ref_topic = 3415468

Please note that for technical reasons and to guarantee functionality of the application the RIDA®SMART APP needs to be able to connect to the R-Biopharm Servers on occasion. The user will be prompted and informed every 2 month to check for updates!

The test results, which have been carried with the RIDA®SMART APP, can be exported to a pre-defined e-mail address. To export data you need a network connection and an e-mail account which is set up in the Nexus 6 device. For more information on how to set up an e-mail account on the Nexus 6 device please see:

<https://support.google.com/nexus/answer/2840815?hl=end>.

A Google account is not required to use the app.

If you want to use the application and all of the features which come with the Nexus 6 device but you have occasional or no access to an appropriate data connection via Wi-Fi, Bluetooth or USB, we recommend to use a SIM card in conjunction with a suitable mobile phone provider's data contract.

2 Installing the RIDA®SMART APP

2.1 Access data

Currently the RIDA®SMART APP can only be installed on the Google Smartphone Nexus 6. You can purchase the Nexus 6 smartphone from any retailer of your choice. In addition, there is the opportunity to obtain the smartphone directly through our distributors.

Please keep in mind that the RIDA®SMART APP can only be exclusively purchased through our distributors. Before you can install the RIDA®SMART APP on your Nexus 6, you have to buy an activation code. After purchase a booklet with the activation code and registration information will be sent via mail. Please follow the instructions for registration and installation of the RIDA®SMART APP in the booklet.

2.2 Registration and installation

To start the registration process please switch on your supported smartphone and ensure that you have a working internet connection. If your supported smartphone does not have a barcode scanner app, we recommend installing an app that is able to detect all common 1D and 2D codes.

Scan the QR code, which is located on the back of your activation code card. This will automatically redirect you to our RIDA®SMART APP homepage. Alternatively, you can navigate using the browser app of your supported smartphones to visit the following page: <http://www.app.r-biopharm.de>.

You must be registered with the RBAG website to complete your download. Please follow the instructions provided to register. After registration you will be redirected to the page where you can download the RIDA®SMART APP onto your smartphone. After installation is complete please start the RIDA®SMART APP and follow the final registration instructions on your Nexus 6 device. To activate the application you will need your user name, password, and your activation code (fig. 1).

Note: during the entire installation process, your Nexus 6 device must have an internet connection.

Registration

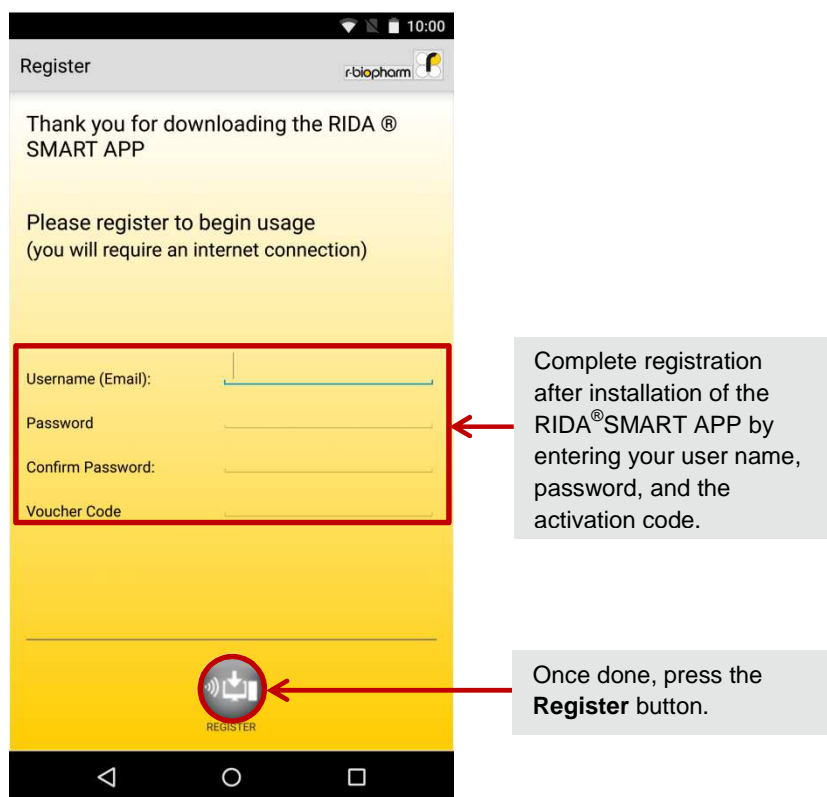


Fig. 1 Registration

Once you press the **Register** button the RIDA®SMART APP is ready to use. Please keep in mind that the access data with the corresponding registration code are unique and valid for only one user and Nexus 6 device. After activation of the RIDA®SMART APP reuse of the access data and registration code for installation on a different smartphone is not possible.

If you lose your access data or registration code, please contact your local distributor.

3 Implementation – use of the RIDA[®]SMART APP

3.1 Test Processing

First, complete the immunochromatographic test with the appropriate sample preparation according to the test kit instructions. After the prescribed incubation period a control band (control line) should be visible in the reaction window of the test strip (fig. 2). If this band is missing the test was not conducted correctly or the reagents were used in the wrong order. The test should then be repeated with a new test strip. For more reasons why a control line might not be visible or is only weakly visible please refer to the instructions for use provided with the test kit.

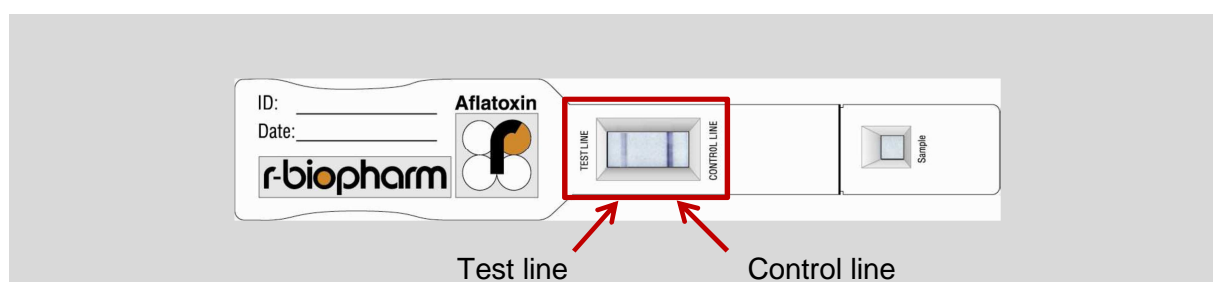


Fig. 2 Test strip with visible bands after incubation

To evaluate the test strip with the RIDA[®]SMART APP the yellow plastic cover with a lot specific paper label is required. Before you begin evaluating please check that the lot number which will be analyzed corresponds to the printed lot number on the front of the paper cover and the lot number on the test strip certificate. Now, place the yellow cover onto the test strip to be analyzed (fig. 3). Note: without the cover strip the evaluation of the test strip with the RIDA[®]SMART APP is not possible! If the yellow cover strip is lost or destroyed you can use a yellow cover strip from a different test kit, which has the same batch number (lot number). Otherwise, please contact your local distributor.

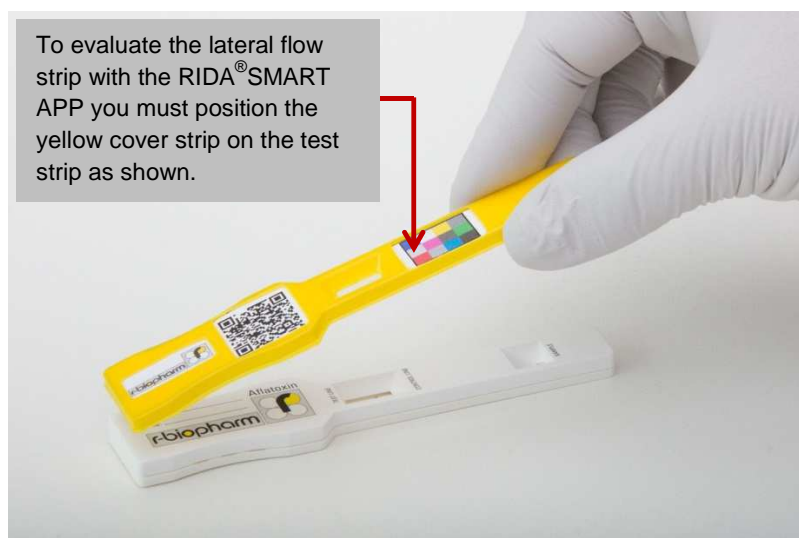


Fig. 3 Positioning of the cover strip

Log-in

Start the RIDA®SMART APP to activate the application on the smartphone. Enter your user data to activate the **LOGIN** button below (fig. 4). This is subdivided into different subchapters, which are described below in detail.

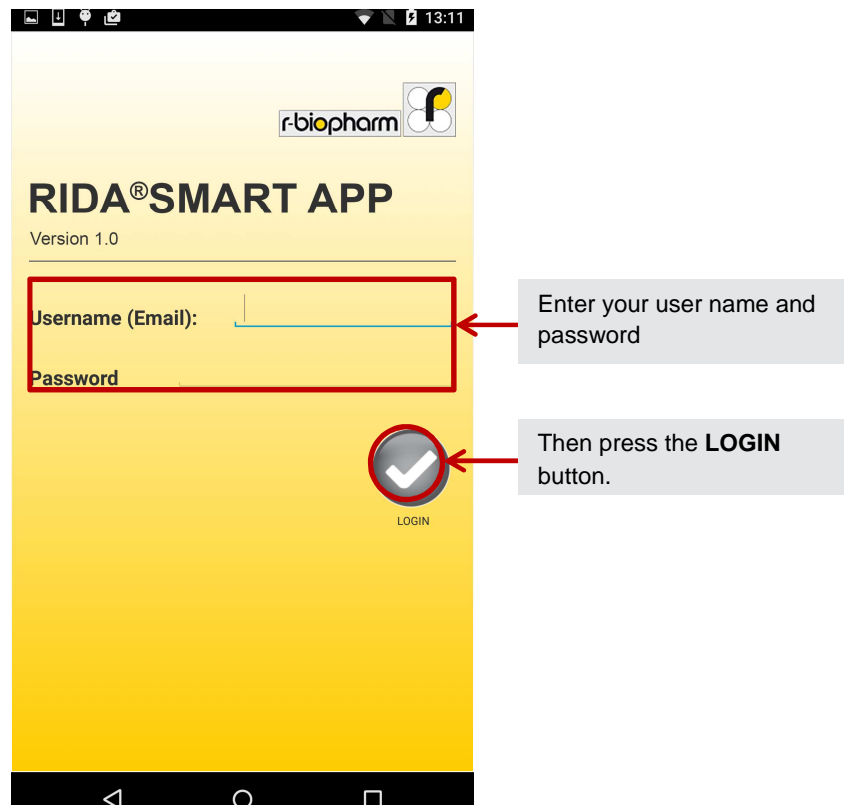


Fig. 4 Login

3.2 Settings

Before the first measurement can be carried out, all user settings should be set up. In the main menu (fig. 5) the **Settings** option can be found.

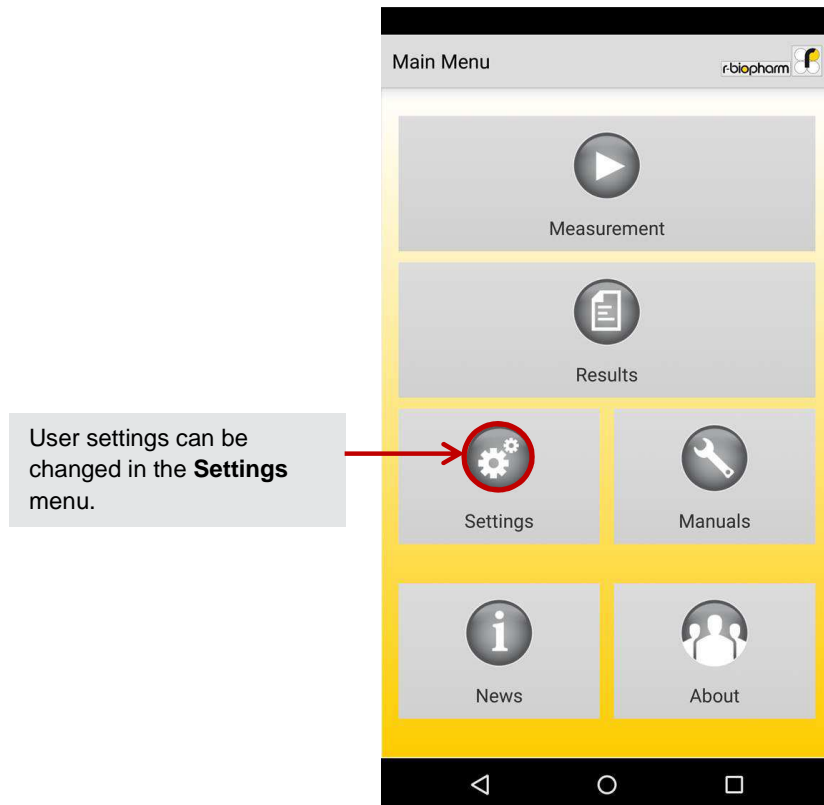


Fig. 5 Main Menu

In the **Settings** menu, your country and default e-mail address can be stored (fig. 6). The selection of the country selects the distributor for your area who is responsible for answering your technical questions (Refer to **Customer service information**). The default e-mail address will be used to export all data collected by the RIDA® SMART APP (Refer to **Data export**). The country and default e-mail address can be changed at any time.

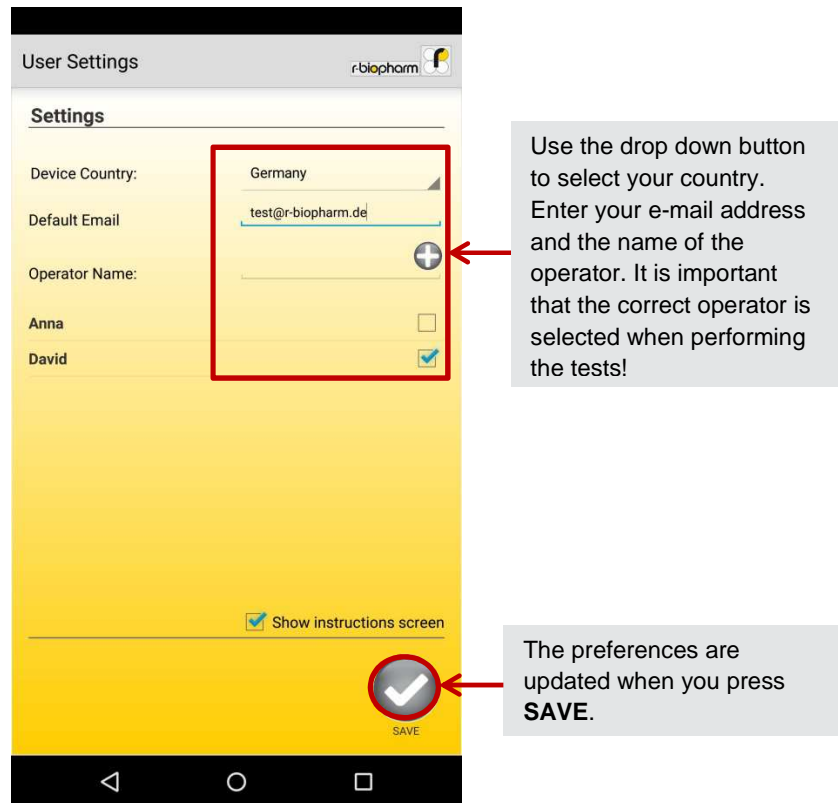


Fig. 6 Settings

Several operators can be added to the app through this menu. When performing a test or series of tests, the correct operator should be selected in the menu. All entries are saved by pressing the **SAVE** button.

3.3 Analyze the test strip with RIDA®SMART APP

3.3.1 Measurement

To read the test strip, select the button **Measurement** button (fig. 7) in the main menu. This will take you to the menu required to measure a test strip.

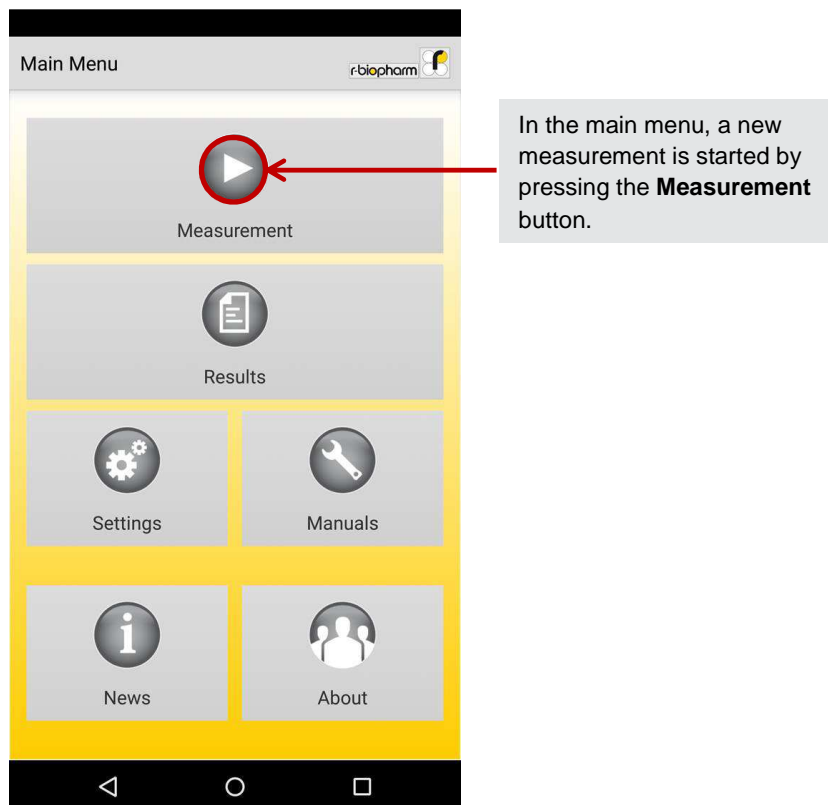


Fig. 7 Main Menu

Here, the operator, the sample going to be measured, and the method are determined. Sample identification is done by entering the sample number (**sample ID**) and the customer (**customer ID**). This information can also be scanned if a barcode is present (fig. 8).

New Measurement

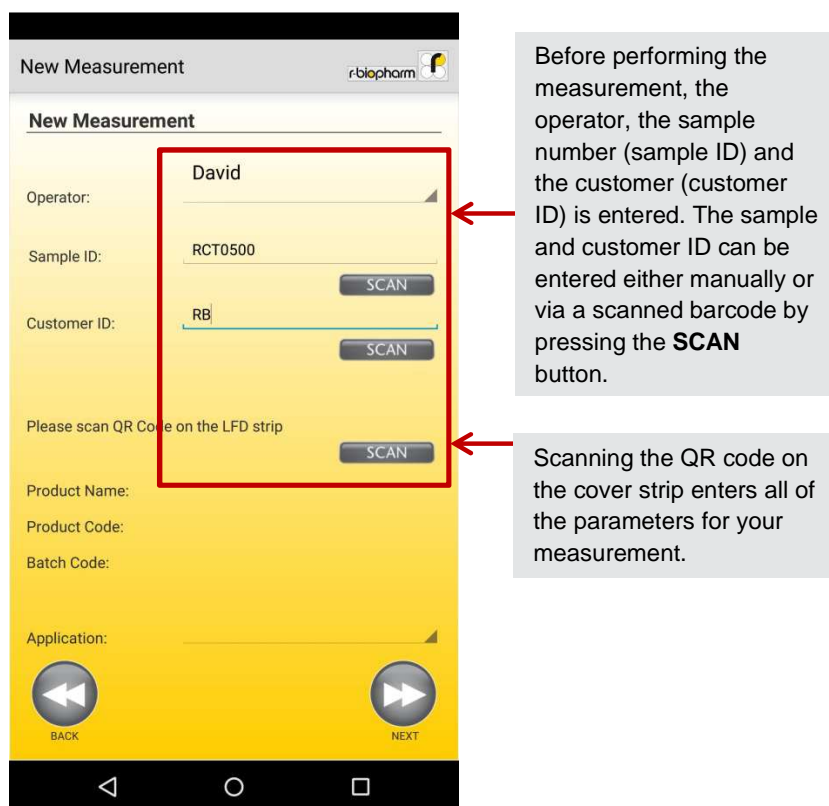


Fig. 8 Sample and test information

After identifying the sample, you can select the method. All parameters which are necessary for evaluation of the samples are stored on the QR code of the yellow cover strips. By scanning the QR code the parameters for the analysis are recorded in the device and the subsequent evaluation is carried out using this method (fig. 9).

3.3.2 Method selection

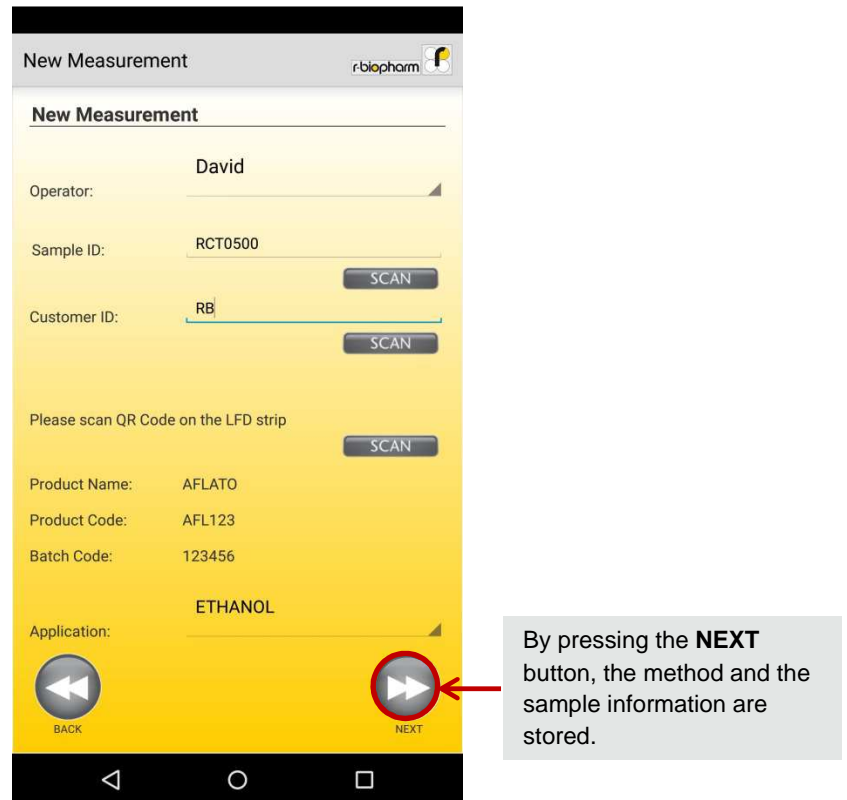


Fig. 9 Method selection

After the selecting the application and identification of the sample, the reading of the test strip can be started with the **NEXT** button. Ensure that the black outlines on the screen line up exactly with the edges of the test strip while scanning (fig. 10). A reliable test evaluation can only be done when the camera is positioned correctly. If the positioning is incorrect the smartphone will inform you that the scan has failed. This process must then be repeated.

3.3.3 Scanning

For a reliable test result, we recommend that scanning should only take place within your laboratory to control the lighting conditions.



Fig. 10 Scanning

3.3.4 Result

By pressing the camera button we take a photo which will be evaluated. The result of the test strip (fig. 11) appears in the Results window automatically opens. The RIDA®SMART APP calculates the concentration of the analyte in the test band and provides a result.

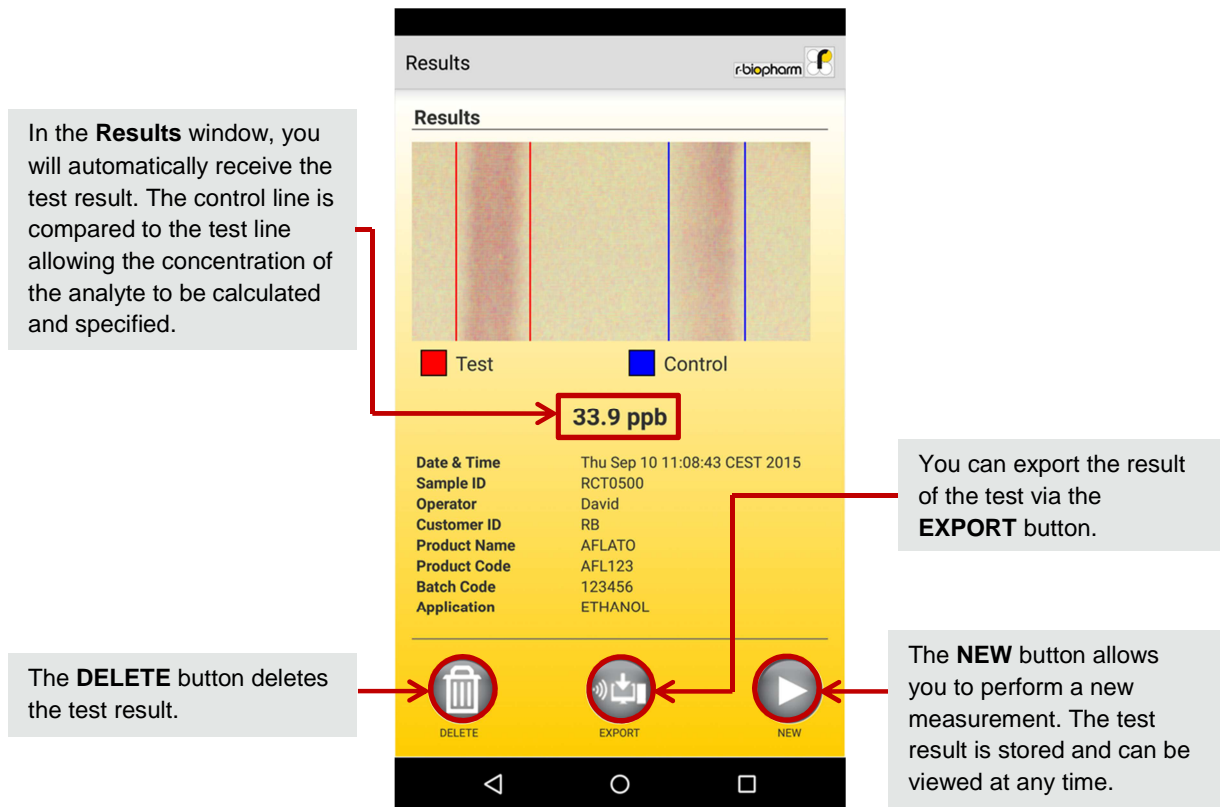


Fig. 11 Results

The test result can be deleted immediately via the **DELETE** button. On the other hand a new measurement can be carried out straight away via the **NEW** button without exporting the result of the first measurement (fig. 11). The results from non-exported samples is stored within the RIDA®SMART APP database. These can be viewed again at a later time and exported (see storage).

3.4 Data export

The result of the test strip can be exported via two different routes. Press the **Export** button to access the **Export Options** menu (fig. 12). The test result can be exported via e-mail or sent to a printer.

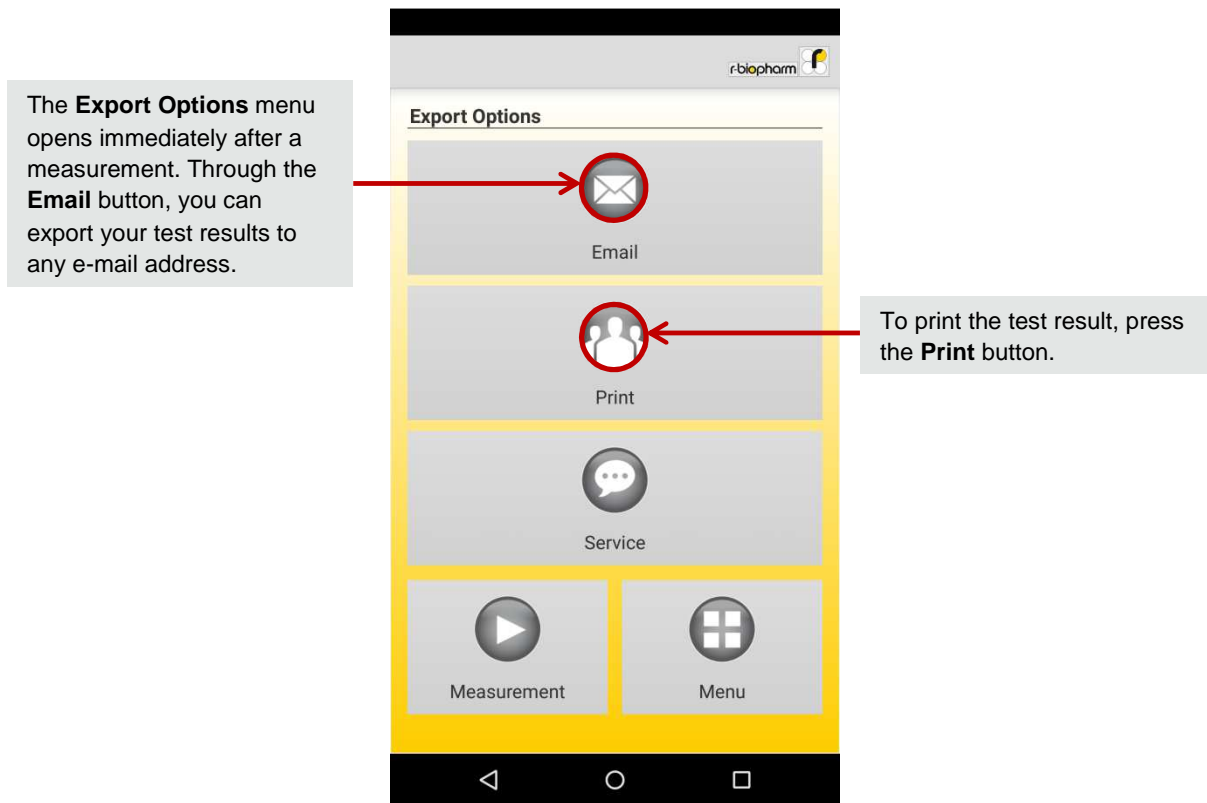


Fig. 12 menu **Export Options**

3.4.1 E-mail Export

The default e-mail address stored in the **Settings** menu appears automatically in the recipient's column. (fig. 13). The test result named with the appropriate sample ID is attached to the email. The exported file format of the result is an HTML file which can be easily opened in every web browser and includes all of the necessary information and a picture of the analyzed test strip. The E-mail is sent when the **Send** button is pressed.

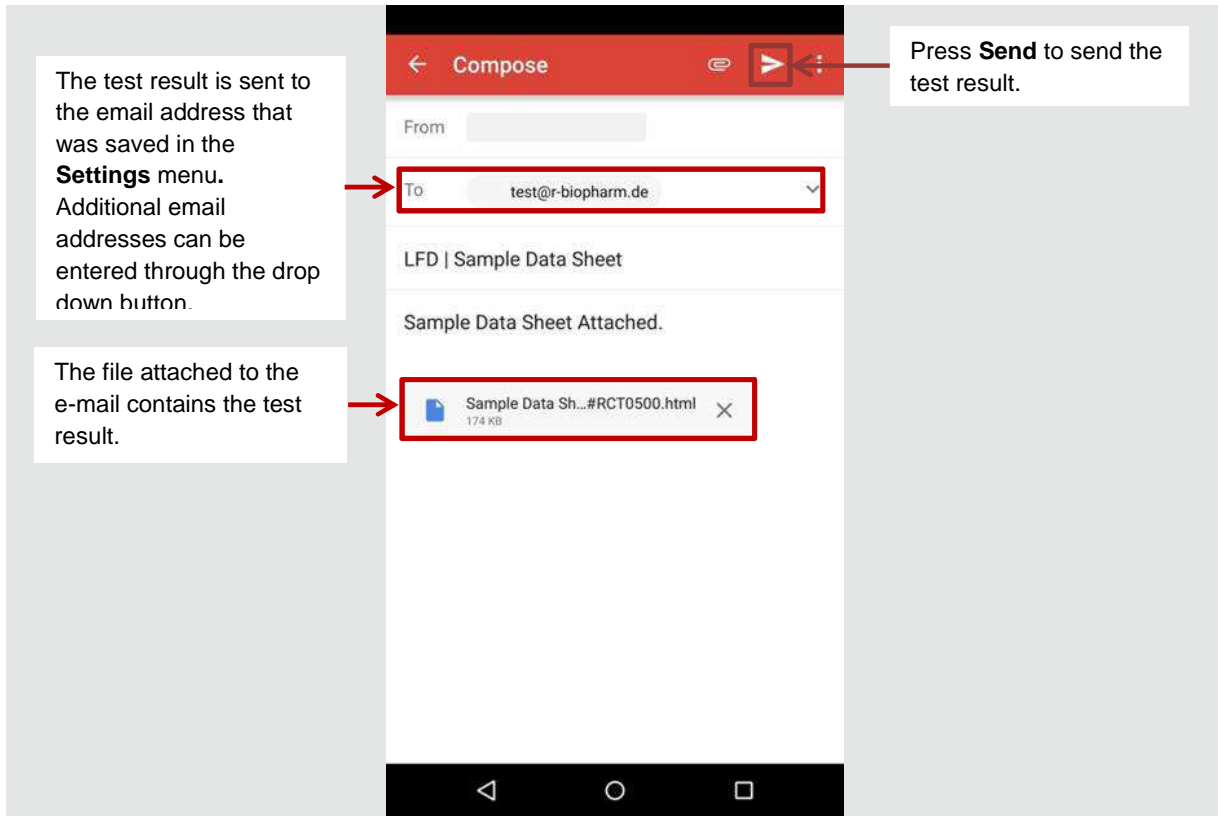


Fig. 13 E-mail Export

3.4.2 Printer Export

There is also the possibility to export test results direct to a printer. Many printer manufacturers have released apps to allow smart devices to connect with their printers. Check the Google Play store to see if there is an app for your printer. If one exists install it on to your Nexus 6. For instructions on printer app installation on an Android based operating system, please refer to [https://support.google.com/nexus/answer/3473588?hl=en & ref_topic = 3415467](https://support.google.com/nexus/answer/3473588?hl=en&ref_topic=3415467). You can also send your data via the "Cloud print" app, which utilizes the Google cloud print service, to your printer. You can get more information at <http://www.google.com/landing/cloudprint/>.

In the **Export Options** menu click on the **Printer** button (fig. 12). Select the desired printer from the drop down menu. Finally, the data export is completed when the button with the printer icon is pressed (fig. 14).

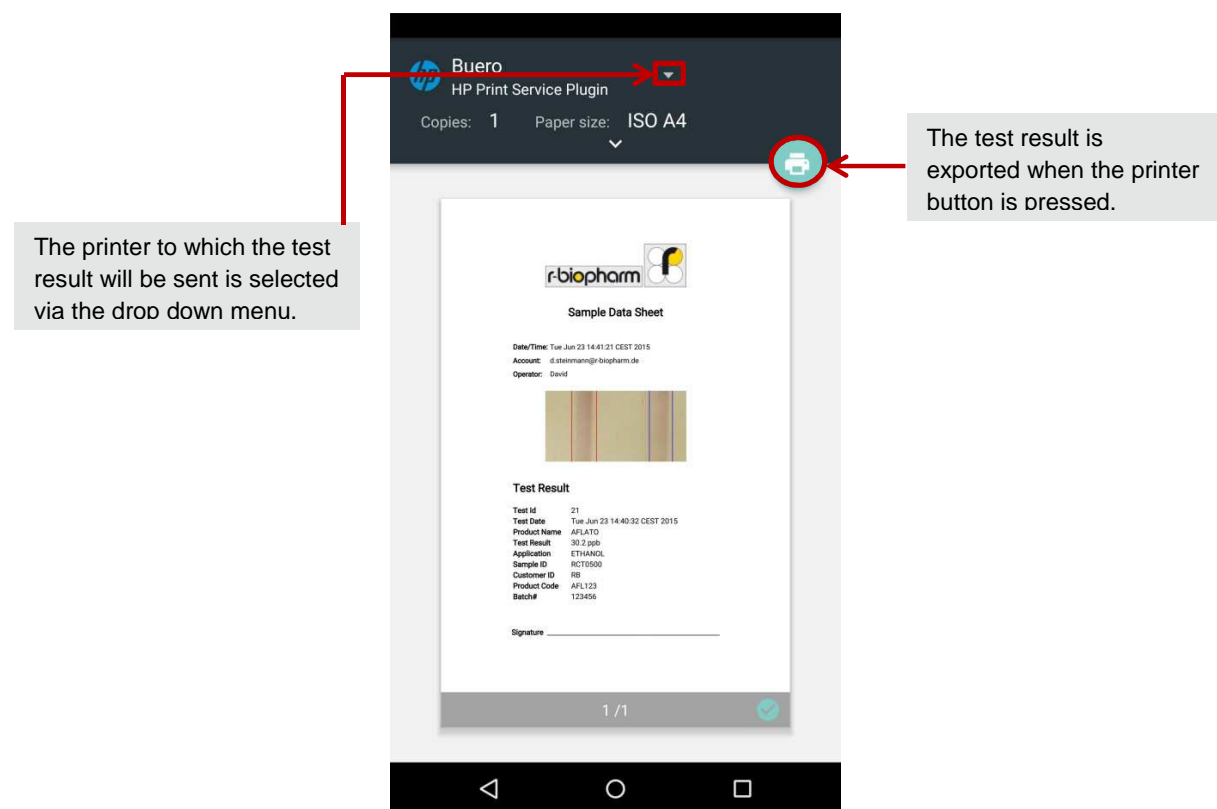


Fig. 14 Printer Export

3.5 Data storage

Each measurement performed is stored by the RIDA®SMART APP database and can be reopened at any time, regardless of whether it was exported or not. It is therefore not necessary to export each individual test result that you have taken with the RIDA®SMART APP immediately. This allows you to take multiple measurements first and then export them at a later date. To open stored test results, press the **Results** button (fig. 15) in the main menu.

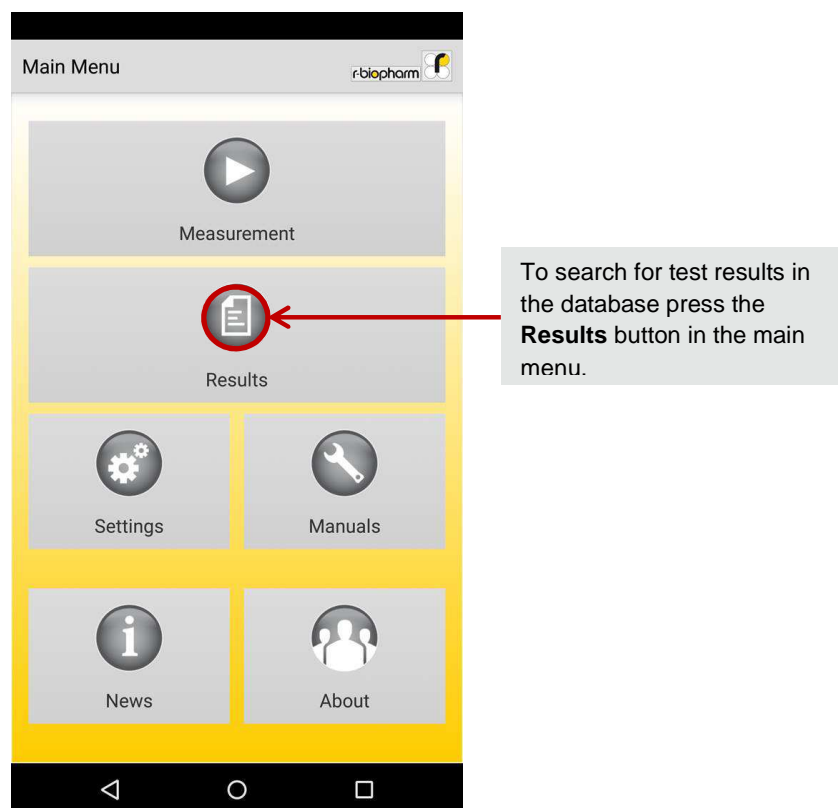


Fig. 15 Main Menu

3.5.1 Search Readings

In the **Search Readings** menu the search / filter parameter can be set. Stored test results can be located by specifying the sample ID, operator, date, batch number and / or the method (product name). At least one option must be ticked and defined to perform a search. Press the **SEARCH** button to start (fig. 16).

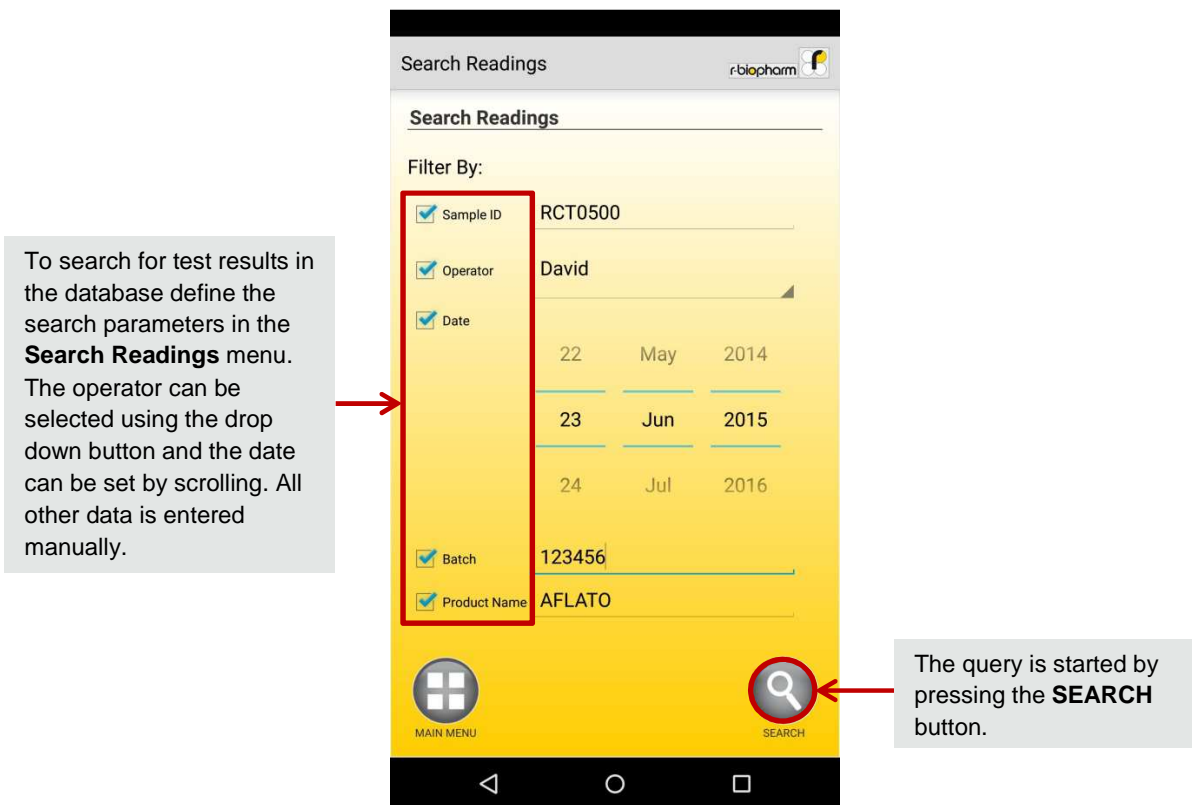
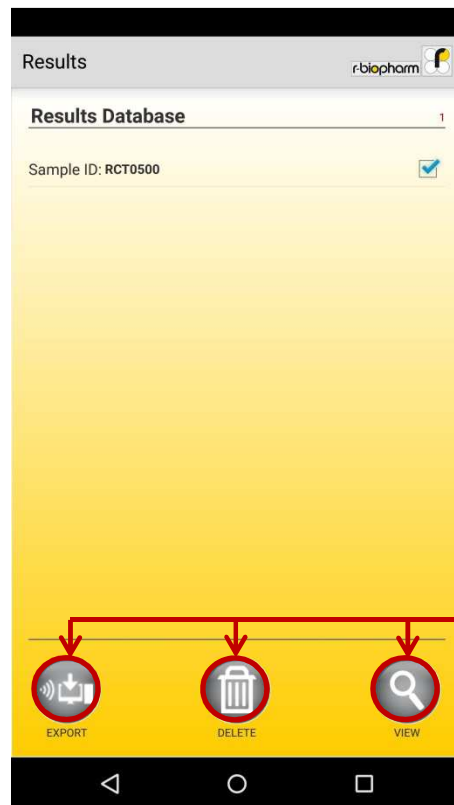


Fig. 16 Search

3.5.2 Results Database

All results stored in the database are displayed in the **Results Database** window (fig. 17). The requested file is selected by pressing the tick box. It can be displayed by pressing then **VIEW** button or deleted by pressing the **DELETE** button. The selected result can also be exported to your e-mail address or to your printer via the **EXPORT** button.

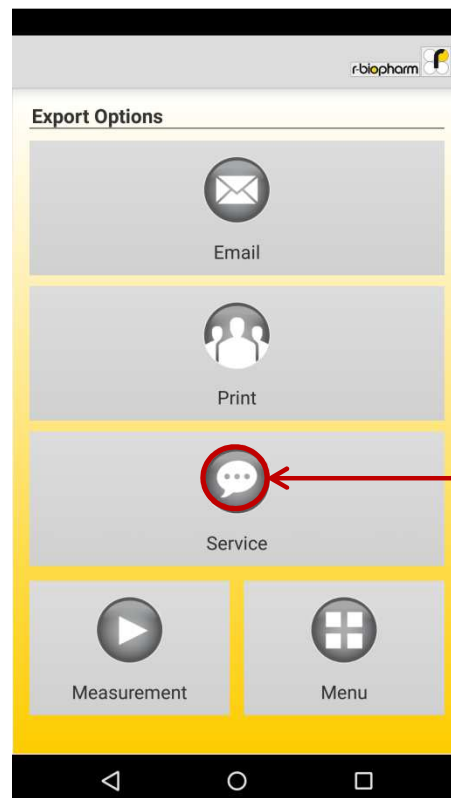


All results in the database are displayed in the **Results** window. Select test result you want by pressing the corresponding tick box. It can be exported to your e-mail address or your printer (**EXPORT** button), deleted (**DELETE** button), or viewed (**VIEW** button).

Fig. 17 Database

4 Customer service information

RIDA®SMART APP allows you to contact your local technical services directly through the application to discuss difficulties with the analysis of test results and other problems and questions. You can select the **Service** button from the **Export Options** menu which is displayed immediately after carrying out a measurement of (fig. 18). The **Service** button will take you to the Technical Service window.



If you have any technical requests or problems with test results you can get in contact with your local technical service via the **Service** button in the **Export Options** menu.

Fig. 18 Menu **Export Options**

So that your request can be processed and answered as quickly as possible, various information regarding your measurement is required. This information is stored in the **Technical Service** menu. First select the reason for your service request in the **Service Type** column. Select from **Handling Error / Kit Test Error / Matrix / Application / Software**. The request will be directed to a local field assistant, who you can select in the **Agent** column. It automatically displays all of the field service staff responsible for your region. This information comes from the region you selected during the initial setup process and can be seen via the **Settings** button (Refer to Settings). Scroll down the screen to manually enter further information (fig. 19).

The following questions must be answered:

- Which matrix does your sample come from?
- How was the sample diluted?
- What concentration was used by you for calculation?
- What is the specific problem?
- What is your name?
- What is your e-mail address?
- What is your e-mail phone number?

Please note that only a completely filled out request can be sent.

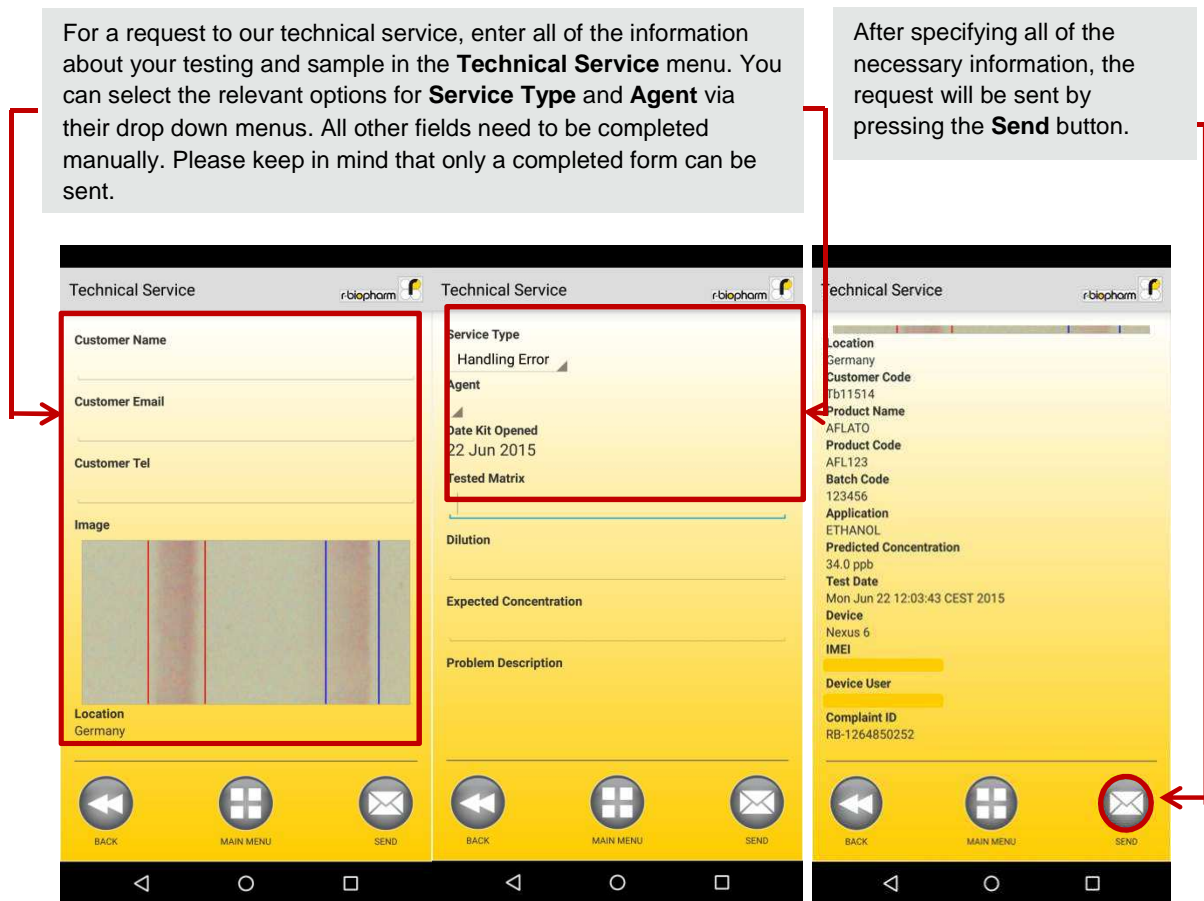


Fig. 19 Service Menu

Your request will be sent by pressing the **Send** button. The sales assistant will contact you promptly after receipt of the request. Warning: to send your request your smartphone must be connected to the Internet via WLAN, Bluetooth or USB.

5 Additional Options

For more information about the RIDA®SMART APP additional documents such as the validation report, a Quick Start Guide and a list of FAQs are on our website, along with this guide. This app can take you directly to them by pressing the **Manuals** button in the Main Menu. The **News** button in the same menu will take you directly to the News section of our website (www.r-biopharm.com/news) where there is lots of information about our new products (fig. 20). Note: to use the above options or **Info**, your smartphone must be connected to the Internet.

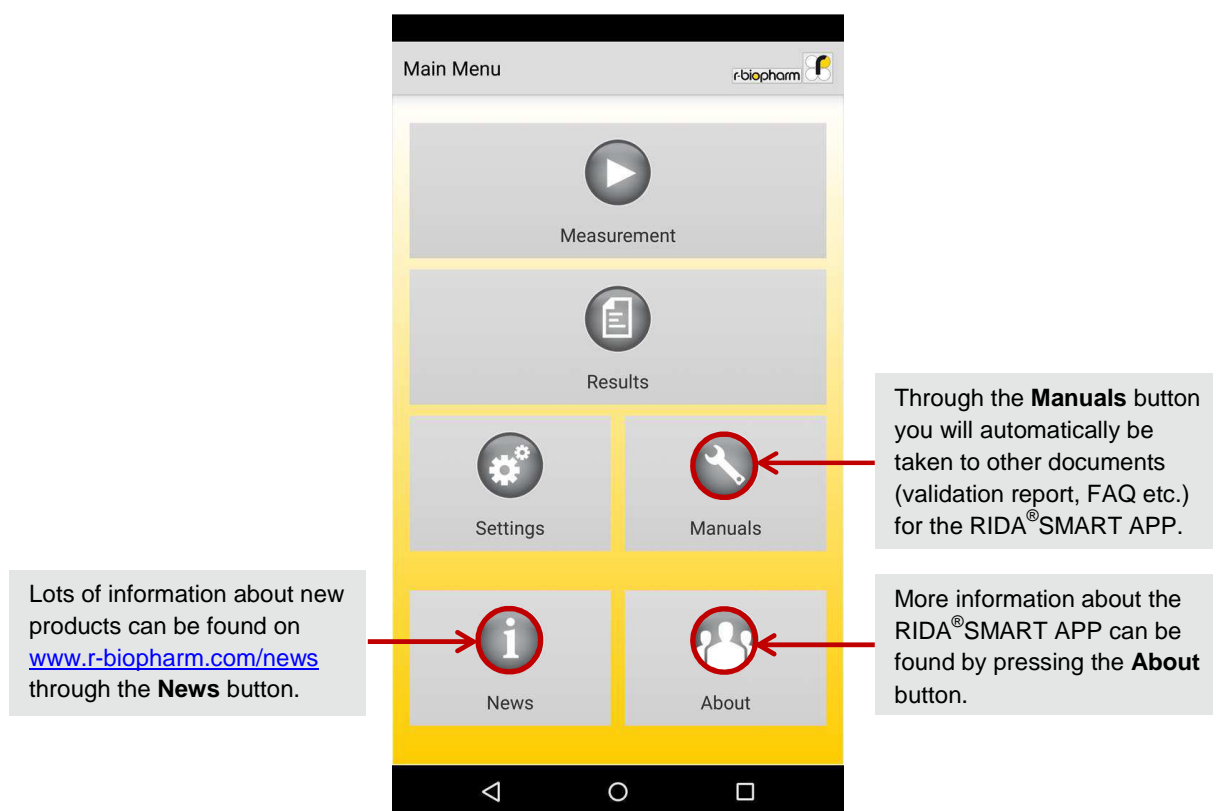


Fig. 20 Main menu

By pressing the **About** button in the Main Menu, you get additional information on the RIDA®SMART APP (fig. 21).

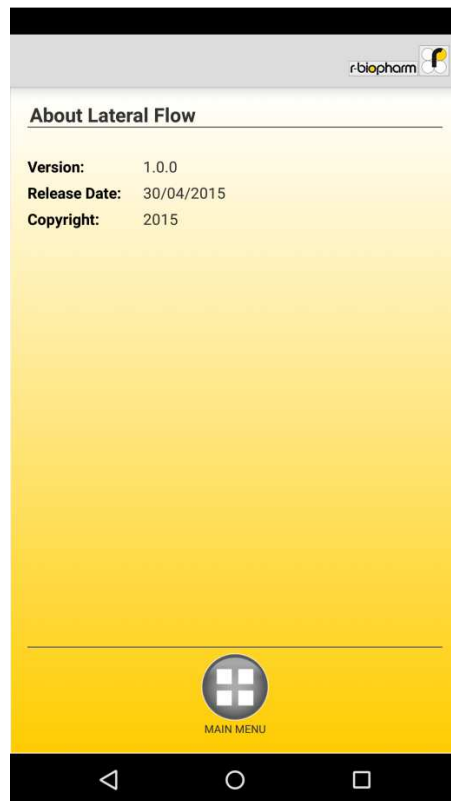


Fig. 21 App Information

6 Technical Specifications

- **Format:**

Software: Application for operating system Android 5.1 from Google.

- **Compatibility:**

RIDA®SMART APP can only be installed and used exclusively with the Android based smartphone Nexus 6 from Google.

- **Data exports:**

Export of test results to an optional e-mail address, cloud or printer via WiFi and Bluetooth.

- **Data retention:**

Test results are stored in the RIDA®SMART APP and can be accessed again at any given moment.

- **Specific for the test systems:**

R-Biopharm AG RIDA®QUICK RQS product line.

7 Proof of manufacturer



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