

BRS

BQC REDOX SYSTEM

QUICK USER GUIDE

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BQC
REDOX TECHNOLOGIES

BRS (BQC Redox System) is the first portable device based on electrochemistry designed to assess the redox state of a wide variety of samples in a simple, fast and precise way

BRS device works exclusively with **BRS disposable strips**
BRS device is controlled by **Android App** using **Bluetooth**

Visit for the latest versions of BRS App,
instructions, and measurement protocols:



www.bioquochem.com

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UNPACKING BRS DEVICE

Check the packing list before using this product:

- BRS Device (protected with a rubber sleeve)
- BRS Test Cell
- BRS Charging Cable: USB cable and power adaptors
- USB Pen Drive with the Instruction Manual

If any of these items are missing, please contact us at info@bioquochem.com

BRS Device Accessories *(not included)*

- BRS Disposable Strips
- BRS Electrolyte
- BRS Standards (BIO and Agri-Food)

Before performing a test, check that the following things are ready:

- BRS Device
- Android mobile Device and BRS App
- BRS Disposable Strips *(not included)*
- BRS Electrolyte (agri-food samples) or phosphate buffer (recommended for biomedical samples dilution)
- Sample: biological fluid, food, beverages, plant extracts, etc.

2

FUNTIONAL DESCRIPTION



⏻ **Power button.** BRS Device is switched on and off by pressing the Power button. The ring around the Power button illuminates when the device is on. If the ring light is blinking the battery of the device is low.

📶 **Bluetooth icon.** Steady white ready to connect. Steady blue: connected.

Rear Panel. BRS Rear Panel counts with a foil that includes serial number, MAC address and company info.

Upper part. The upper part of the BRS Device is an USB connection for battery charging.

Bottom part. In the bottom part of the BRS Device is located the slot for connecting the BRS strips required to perform the test.

3

HOW TO USE THE BRS DEVICE

The steps required to perform a test with the BRS Device are described below.

1



Switch ON the device by pressing the **Power button**. The ring around the Power button illuminates.

2



Connect your Android device to the **internet** and activate **Bluetooth**. Download **BRS App** and log in with your credentials.

3



Pair your Android device with the BRS by clicking **Search devices**. Choose the corresponding Bluetooth identifier (BLE recommended).

The identifier is shown as BQC-XXXX. The XXXX corresponds to the last four digits of the MAC address (back panel of the device). Bluetooth icon turns to blue when the Android device is connected.

4



Insert the top end of a new **BRS strip** (printed side up) into the slot located on the bottom part of the device and **check** the tips and instructions of the complete **user guide**.

5



Place a **drop** of sample onto the sample area of the strip (50 - 100 μ L). The drop must **cover completely** the sample area of the strip.

6



Select the sector and the type of sample. **Start the measurement** by selecting the parameter of interest.

7



Wait < 1 min to see the result on your screen. It is displayed on the screen, when the measurement is finished.

Do not extract the strip until the measurement is finished.

8



Once the measurement has finished, the data can be saved, downloaded or shared.

9



You can edit the name of the measure to label the tests and see all of your records on the **history tab**.

10



To start a new measurement, insert a new strip and select **New measure**.

Important tips for a correct measurement

- Check pen drive and read the tips and instructions of the complete user guide.
- Handle the BRS device with care. Do not allow liquids to spill into the device.
- Before starting a measurement, ensure that a disposable strip is inserted.
- Drop sizes between 50-100 μL are recommended to cover the sample area of the strip. Less than 50 μL could get incorrect readings.
- Do not perform a measurement without sample on the disposable strip. The strip will be useless.
- Always work in a place free from major electrical interferences, vibrations, and drastic fluctuations in temperature.
- Do not drain BRS Device battery.

! Check the full instructions book for more tips and detailed information