



Quantitative salivary measurement solutions

SOMA CUBE LFD READER

Lateral flow assays represent a well established proven technology for a variety of point-of-care and field use applications. Although these simple diagnostic tests are established in many routine applications, this technology has not been widely applied when very sensitive, highly reproducible, quantitative results or electronic data documentation are required.

The *SOMA CUBE LFD Reader* now makes this possible, by combining the major advantages of traditional lateral flow assay with modern technologies to fulfil the requirements for new diagnostic tests. The *SOMA Cube LFD Reader* is ideal for point-of-care diagnostics, field-based tests and many more applications.

The component parts required for a test are: an SOMA CUBE LFD Reader; an SOMA Oral Fluid Collector (OFC) swab; an SOMA OFC Buffer and an SOMA LFD.

Application Range

SOMA have developed a range of LFDs for the LFD Reader, including antibodies and hormones. New LFD ranges are constantly in development, so check the website for the latest list of available assays.

The reader is simple to operate and very quick to use, with scans taking just under 4 seconds. This makes analysis of batches of samples a remarkably speedy process, compared to standard laboratory procedures. The SOMA LFD assays

are all competitive, as opposed to some Lab ELISA assays which are sandwich assays, yet the agreement between the two platforms is remarkably strong.

Field Testing

The Cube reader has no moving parts and is pocket size (40g). The lithium batteries mean that the test can be performed in a range of settings and the reader stores up to 100 test results in the memory, each date and time-stamped. This data can be viewed on the cube software or exported to excel.

The SOMA CUBE LFD Reader with OFC, LFD & calibration card (not included).



Individual Calibration

A specific calibration curve for each batch (or Lot No.) of strips is uploaded to the *SOMA CUBE LFD Reader* using an RFID card supplied with consumables.

The *SOMA CUBE LFD Reader* has the capacity to run all SOMA assays, so as new SOMA LFD tests are developed, they can be added to the platform, simply by using the correct RFID calibration card.

Reference

Dunbar J et al. (2015) Evaluation of a new Point of Care quantitative Cube reader for salivary analysis in Premier League soccer clubs. *British Journal of Sports Medicine*. 49.

PRODUCT FACTS

SOMA Product Code

SOMA CUBE

Kit Contents

1 SOMA CUBE LFD Reader,
USB stick containing SOMA
Cube Software and Manuals
3 Lithium CR2032 Batteries
USB Cable
LFD Holder Plate

Applications

For the analysis of saliva samples for the quantitative determination of a variety of assays. For use in Sport, Exercise, Corporate, Healthcare, Veterinary and Research.

Scan Time

Approximately 4 seconds

Sample Volume

Two drops of saliva / buffer mix from OFC (~100 µl)

Power

3 x CR2032 Battery or USB

Data Storage Capacity

100 test results

Storage

-30°C to +80°C

Operating temperature

+10°C to 35°C

Dimensions

H 41mm W 41mm D 40 mm

Mass

40g