LensHOOK⊖™

Semen Quality Analyzer

World's First Fully Automatic Device





Who we are?

About Us



We are a team formed by the engineers & technicians with more than 10 years' experience in vitro diagnostic field from United States, Asia, and Europe. We are dedicated to the development of high-precision and user-friendly in vitro diagnostic devices to improve the medical environment's quality around the world. The highly integrated resources and talents in the fields of R&Ds, patents, products, and market deployments have attracted the attention of many venture capital corporations. In July 2016, for example, Vivo Capital, a famous venture capital company in Silicon Valley, invested us and also offered a lot of resources for us to develop the market.

In recent years, the aging population and the increasing number of infertility have led to problems in social, economic, and many other aspects. The population is a basic index to evaluate the competitive strength of a country. Therefore, to increase the fertility rate has become one of the important issues for many countries.

However, to overall review the market of medical device you will find that there are few products focusing on the specimen testing in human reproduction field. Because of this, Bonraybio creates the product brand, LensHOOK \Rightarrow ^m & C KUP, and devotes to develop the high precision testing system with excellent efficiency of detection flow to increase the quality of medical environment, and also to raise the birth rate of human beings











C-KUP[™]



2015 Established **Patents** 2016 30 +reddot Award Technology Electronic reddot Optical award Mechanical winner Algorithm Application **Product Brand** Certificate **Lens**hook∂™ **C**-KUP CEDA **% Applying Registration**

What's the Product?



Semen Quality Analyzer

Compact & Automatic



1 Easy & fast

The Analyzer is very easy to use. It could allow the non-technical background's person to operate without any problem. Beside, it only take you 3-5 minutes to get all of the results.



2 Touch Panel

The analyzer uses resistive touch screen to allow medical technologist to touch the screen with glove.



3 Auto Focus & Full HD

The analyzer is capable of shooting 1080P Full HD dynamic film to enable immediate sperm morphology examination by medical personnel.



4 Real-Time Image

HDMI connection to the monitor can display the dynamic film with the key analytical data (pH/concentration/motility/morphology) on the monitor screen in real time.







% Comply with WHO4 & WHO 5 edition.

Test Cassette

Insert & Test







Morphology



Motility (NP, PR, NP+PR)



Optical Grade PC Material

This material is equal to the lens of mobile phone. It is optically clear, providing total luminous transmittance, and very low haze factor.



Anti Leakage

Patented concaved design with anti-leakage function can prevent analyzer from accidental specimen contamination.



Insertion Guide

Special insertion guide design allows the user to insert the cassette with ease and precision.

How to use?

Operation Step



Only **3 steps**, taking **3~5 minutes** to get all the test results!

Display by Other Device



How it's performance?

Current method V.S LensHooke[™] Semen Quality Analyzer

Concentratio



Direct comparison of sperm concentrations between the result of the Semen Quality Analyzer and the visual check result from using the microscope-based method. The solid blue line represents the regression line, the solid black line represents the diagonal line, and two dashed red lines represent the confidence band (n = 60).



Bland-Altman analysis to compare the results obtained by the Semen Quality Analyzer and visual checking microscope-based method. The green dashed line is the mean difference of the methods, and the red dashed lines represent the 95% curves.





Direct comparison of sperm concentrations between the result from the Semen Quality Analyzer and the result from the visual checking via the microscope-based method.



Bland-Altman analysis to compare the results obtained by the Semen Quality Analyzer and visual checking microscope-based method.



The Increasing Population of



Elder

By 2020, the number of people aged 60 years and older will outnumber children younger than 5 years.



Unable to have a child's couple 48.5 million couples unable to

have a child



Unable to have 2nd baby's couple 10.5% women unable to have 2nd baby after 5 years of trying



50% Infertility caused by male's problem



More than 90% of male infertility cases are due to **low sperm counts**, **poor sperm quality**, or both.

Source : World Health Organization and European Association of Urology

Who needs to do the Semen Analysis?

In recent years, the aging population and the increasing number of infertility have led to the problems in social, economic, and many other aspects. However, according the the report of European Association of Urology, there are around 50% infertility cased by male's problem.

The sperm number decrease around 1% per year. Therefore, to monitor the male sperm's status is become an important issue.

In additional to the infertile male, the male who plan to get pregnant, vasectomy, to storage, donate the sperm or even with the andrology problem, all need to do the semen analysis.



Sperm Donation





Liquefaction Test Cup

Brand New with innovative technologies



1 Wide Opening

Enlarged cup opening (53mm in Dia.) is user friendly during sample collection.



Large concaved bottom design allows the medical technologist to check the specimen easily even with small sample volume.



3 Check liquefaction

Special patented V-Stick design allows the medical technologist to check proper semen liquefaction within the sample collection cup (C-KUP).



Integrated dispenser design with the sample collection cup (C-KUP) allows sample dispensing without the need of a pipette.

World first cup to **Collect** & **Check** the sample.

How to use? 30 The patented Waiting for liquefaction V-Stick

Shake well of specimen and check on the specimen color & volume.

2 Turn the cup upside down.

3 Check on the liquefaction status.

4 Open the tip cover.



5 Place a drop of semen on the inspect device.

LensHOOK⊖™

