**iQuant Analyzer**

Fluorescence Immunoassay (FIA)

Advanced Technology
Accurate Results
Affordable Price

DEVELOPED IN PARTNERSHIP WITH HTIC, IIT MADRAS

FIA Tests Range Available
The iQuant Analyzer is a fluorescence immunoassay (FIA) device that can perform various tests including TSH, T4, T3, HbA1c, vitamin-D, dengue IgG, dengue IgM, dengue NS1 Ag & CRP.

The analyzer comes with a large touch screen (10.1" resolution 1280x800) and a 4 GB RAM & 64 GB storage capacity for more than 1,00,000 patient samples. It is equipped with an Intel Quad Core Cherry Trail processor and a large touch screen (10.1" resolution 1280x800) for internet connectivity.

The device also includes a Wi-Fi for software updation through the cloud & other technical issues, an online support for emergency operation, a 15ºC-35ºC operating temperature range, and a 8100 mAH Lithium Polymer battery for backup.

For testing, the analyzer can handle various tests and comes with a multi timer and instructor for monitoring the "test run time" of 4 different tests & step-by-step instruction for specific tests. A starter kit of HbA1c Quanti Card and dual heating block are also included.

- **Tests Performed:** TSH, T4, T3, HbA1c, Vitamin-D, Dengue IgG, Dengue IgM, Dengue NS1 Ag & CRP
- **Display:** Large touch screen: 10.1" (resolution: 1280x800)
- **Storage:** 4 GB RAM & 64 GB storage capacity for more than 1,00,000 patient samples
- **Processor:** Intel Quad Core Cherry Trail processor
- **IQCLOUD:** For upgradation & training
- **Bluetooth:** For connecting accessories like printer
- **Wi-Fi:** For internet connectivity for data delivering/patient reports
- **Multi Timer & Instructor:** For monitoring the "test run time" of 4 different tests & step-by-step instruction for specific test
- **Battery Backup:** For emergency operation (8100 mAH Lithium Polymer battery)
- **Online Support:** For software updation through cloud & other technical issues
- **Weight:** Light weight: 1.9 Kg
- **Temp.:** Operating temperature range 15-35ºc

The iQuant Analyzer also includes dual heating block, iVortexer & starter kit of HbA1c Quanti Card.
Fluorescence immunoassay (antigen-antibody) for quantitative measurement of Thyroid Stimulating Hormone (TSH) in Human Serum/Plasma

**TSH QUANTI CARD**

- Principle: Based on most advanced fluorescence sandwich immunoassay method
- Individually pouched test cartridge, each cartridge is precision engineered with embedded lot data.
- Measuring Range: 0.40 – 40 µIU/ml
- High analytical Sensitivity: 0.40 µIU/ml
- Results within 45 Minutes (all steps included)
- Shelf Life: 15 Months at 2-8°C

Available Packsize: 25 & 50 Tests

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Fluorescence immunoassay (antigen-antibody) for quantitative measurement of Total Thyroxine (T4) in Human Serum/Plasma

**T4 QUANTI CARD**

- Principle: Based on most advanced fluorescence competitive immunoassay method
- Individually pouched test cartridge, each cartridge is precision engineered with embedded lot data.
- Measuring Range: 1.0 – 25 µg/dl
- High analytical Sensitivity: 1.0 µg/dl
- Results within 30 Minutes (all steps included)
- Shelf Life: 15 Months at 2-8°C

Available Packsize: 25 & 50 Tests
**T3 QUANTI CARD**

Fluorescence immunoassay (antigen-antibody) for Quantitative measurement of Triiodothyronin (T3) in Human Serum/ Plasma

- Principle: Based on most advanced fluorescence competitive immunoassay method
- Individually pouched test cartridge, each cartridge is precision engineered with embedded lot data.
- Measuring Range: 0.5 – 7.5 ng/ml
- High analytical Sensitivity: 0.5 ng/ml
- Results within 50 Minutes (all steps included)
- Shelf Life: 15 Months at 2-8°C

Available Packsize: 25 & 50 Tests

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**Dengue Range**

(Dengue NS1 Ag, Dengue IgM & Dengue IgG Tests)

### Dengue NS1 Ag QUANTI CARD

Fluorescence immunoassay for qualitative detection of Dengue NS1 Antigen in Human Serum/ Plasma

- Available Packsize: 24 & 48 Tests
- Principle: Based on most advanced fluorescence sandwich immunoassay method
- Individually pouched test cartridge, each cartridge is precision engineered with embedded lot data.
- From DAY1 of the fever, it detects all 4 serotypes of Dengue Virus
- Results within 30 Minutes
- Sensitivity: **100%** & Specificity: **98.38%**
- Long Shelf Life: 15 Months At 2-8°C

Source: https://doi.org/10.20546/ijcmas.2017.611.061, Table-3, Page- 510

### Dengue IgM QUANTI CARD

Fluorescence immunoassay for qualitative detection of Dengue IgM Antibodies in Human Serum/ Plasma

- Available Packsize: 24 & 48 Tests
- Principle: Based on most advanced fluorescence immunoassay method
- Individually pouched test cartridge, each cartridge is precision engineered with embedded lot data.
- It detects all 4 serotypes of Dengue Virus
- Results within 40 Minutes
- Sensitivity: **96.72%** & Specificity: **97.45%**
- Long Shelf Life: 15 Months At 2-8°C

### Dengue IgG QUANTI CARD

Fluorescence immunoassay for qualitative detection of Dengue IgG Antibodies in Human Serum/ Plasma

- Available Packsize: 24 & 48 Tests
- Principle: Based on most advanced fluorescence immunoassay method
- Individually pouched test cartridge, each cartridge is precision engineered with embedded lot data.
- It detects all 4 serotypes of Dengue Virus
- Results within 40 Minutes
- Sensitivity: **97.23%** & Specificity: **97.36%**
- Long Shelf Life: 15 Months At 2-8°C
Fluorescence immunoassay (antigen-antibody) for the Quantitative measurement of CRP (Total) in Human Serum

- Principle: Based on most advanced fluorescence competitive immunoassay method
- Individually pouched test cartridge, each cartridge is precision engineered with embedded lot data.
- Results within 30 Minutes
- Analytical Sensitivity: 2.5mg/l
- Measuring Range: 2.5 - 100 mg/l
- Longer Shelf Life: 15 Months at 2-8°C
- Convenient Packsize: 10 Tests Pack

Fluorescence immunoassay (antigen-antibody) for the Quantitative measurement of PCT (Procalcitonin) in Human Serum

- Principle: Based on most advanced fluorescence sandwich immunoassay method
- Individually pouched test cartridge, each cartridge is precision engineered with embedded lot data.
- Results within 45 Minutes
- Analytical Sensitivity: 0.1 ng/ml
- Measuring Range: 0.1 - 20 ng/ml
- Longer Shelf Life: 15 Months at 2-8°C
- Convenient Packsize: 10 Tests Pack

Fluorescence immunoassay (antigen-antibody) for the Quantitative measurement of 25-OH Vitamin D (Total) in Human Serum

- Principle: Based on most advanced fluorescence competitive immunoassay method
- Accurate Results traceable to international standard reference NIST-SRM 972a
- Excellent result corelation with LC-MS/MS
- Quantitative detection of 25-OH Vitamin D₂ & D₃
- Individually pouched test cartridge, each cartridge is precision engineered with embedded lot data.
- Results within 25 Minutes after adding prepared sample in the cartridge
- Analytical Sensitivity: 4ng/ml
- Measuring Range: 4 - 100 ng/ml
- Longer Shelf Life: 15 Months at 2-8°C
- Convenient Packsize: 10 Tests Pack
Fluorescence based immunoassay (antigen-antibody) for quantitative measurement of HbA1c (glycated hemoglobin) in Human Whole Blood

**Available Packsize:**
25, 50 & 100 Tests

**Result as per NGSP**

<table>
<thead>
<tr>
<th>NGSP Certification Criteria: # within 5% of NGSP Mean</th>
<th>Marks Obtained</th>
</tr>
</thead>
<tbody>
<tr>
<td>36/40</td>
<td>40/40</td>
</tr>
</tbody>
</table>

- Principle: Based on most advanced fluorescence immunoassay method
- Certified from NGSP, USA
- QR Code on each cartridge includes lot specific data
- Measuring Range: 4% to 16%
- Individual pouched test cartridge
- Results within 15 Minutes
- Long Shelf Life: 15 Months At 2-8°C

For further enquiries, Please contact:
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