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INNOMET™ READER

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Optimizing current methods for high-throughput precision testing

The chip concentration meter is a product developed by VELSSON, based on microfluidic chip technology and using ultraviolet spectrophotometry. It is capable of efficiently and sensitively detecting concentrations of DNA, RNA and proteins (antibodies) in quantitative analysis.

Product Features

High Throughput
24 samples

High Integration
Compact layout, efficient space utilization

Low Sample Input
5–15 μL per well

Intelligent Guidance
Graphical operation instructions, no additional training needed

Rapid Detection
Complete testing and reporting output in 3–10 minutes

Easy Operation
No complex preparation, test upon sample loading and on-demand testing

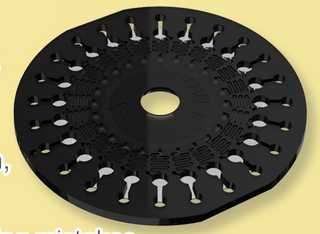
Precision Results
High linearity with standard concentrations

All-in-one Operation
Supports batch sample loading, full automation of the sampling process, supports upstream and downstream automatic expansion

Applications

- Biological Large Molecule Drug Development
- High-throughput Activity Testing
- Synthetic Biology Research
- Preliminary Validation of Small Molecule Drug Expression
- Proteomics Research
- Tissue Engineering and Regenerative Medicine
- Food Safety and Quality Control
- Environmental Monitoring
- Drug Metabolism Research

Microfluidic Chip Consumables



High Throuput: 24 samples

Fast Detection: Complete testing and reporting output in 3–10 minutes

Centrifugal Chip: Precise flow control and stable sample loading

Low Sample Volume: 5–15 μL per well , reducing sample consumption, saves reagents, accelerates reaction speed

Quantitative Detection Port: Eliminates result errors caused by pipetting mistakes

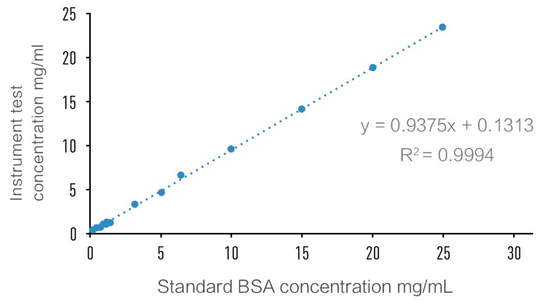
QR Code: Rapid identification and complete batch traceability

Low Cost: Consumables can be used multiple times

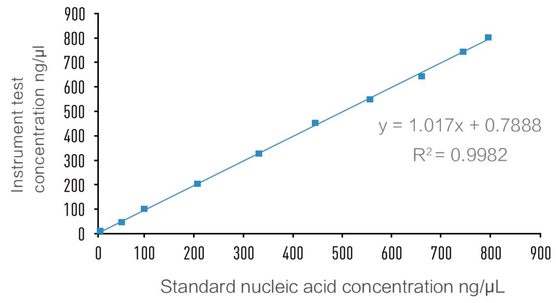
Test Data

Results of protein and nucleic acid concentration tests using INNOMET™ READER:

Protein Test Curve



Nucleic Acid Test Curve



- In the concentration range, the protein/nucleic acid concentrations detected by INNOMET™ READER and the concentrations of standard samples were linearly compared. The R2 values were 0.999 and 0.998, respectively, indicating high linear fitting precision.

Specifications

Equipment size	35*26*21 (cm) / 14*10*8 (inches)		
Testing method	Absorbance	Chip type	RNA, DNA & Protein
Chip format	24 channel testing	Detection pore diameter	2.4mm
Testing range	BSA 0.1–40μg/μL、nucleic acid 50–4000ng/μL		
Testing time	3–10mins/chips	Detection accuracy	3%
Repeatability error	≤2%	Detector	Solid-state semiconductor sensor
Light source	LED	Reading method	Base
Wavelenght range	230/260/280nm	Temperator	Room temperature
Humidity	<85%	Hardware interface	Open API