

DIA.BLOOD Duo

FULLY AUTOMATED HIGH THROUGHPUT

ELISA Micro-plate Workstation

Designed for blood screening & large volume testing



DIA.BLOOD: OD Reader
DIA.BLOOD DUO: Double Reading System
OD & RLU (CLIA)

A CE CERTIFIED COMBINATION OF KITS AND INSTRUMENT

SCAN&WATCH



*Your IVD
specialists!*



DIA.BLOOD Duo

Technical specs

Hardware features integrated with touch-screen monitor, could be split in two, for easy transportation & installation

Module conception

Plug & Play

Tip configuration

8 tips

Tip types

HDPE disposable tips (5-1000µl)

Syringe size

1000µl

Incubators

9 independent

Washer

3 independent

Digital camera

Liquid sampling monitoring system/OPTIONAL (available upon specific request)

Liquid handling features

Pipetting precision

Volume CV (%)

Standard volume

10 µl < 5%

100 µl < 3%

Liquid detection

Pressure sensor & Clot detector

Minimum volume detectable

Up to 200 µl in sample tube up to 500 µl in control, up to 2ml in reagent vial

Sample loading range

Sample loading range

Variable, starting with 8 sample tubes per grid up to 288 (36 grids)

Sample session processing

Variable, starting with 8 samples up to 792 samples depending on work-list (modality continuous loading)

Strip handling

Variable, starting with 1 assay per plate up to 4 assays per plate (modality optimization loading)

Plate session processing

Variable, starting with 9 assays up to 36 assays per session

Sample input format

Sample tube diameter from approx. 10 up to 12 mm.

Pre-dilution option

3 different plates sites for common or exclusive pre-dilution

Sample & Reagents

Dispensing verification system (CD Camera) (available upon specific request)

Bar-code Identification

Supported format

Code 39, Code 128, Interleaved 2 of 5, Coda Bar, HIBC code (Health Industry Bar-Code)

Bar-code evaluation

Sample codification, plate codification, kit type codification with recording of lot number & lot expiry date

Incubator module

Incubator modules

All incubators are integrated in modules with washer

Shaking

3 modules that consist of 3 independent incubators

Temperature range

Independent shaking for each position with variable speed (350 rpm to 700 rpm)

From 20°C (room temperature) up to 40°C with accuracy of +/- 0.5°C

Washer module

Washer module

All modules are integrated with incubator

Manifold

3 washer

Wash channel

8-channel manifold

4 common channels for wash buffer which are linked to 4 containers of 5 L.

and 2 containers of 10 L for waste/each with loading cell.

Strip or plate mode with or without soaking time

Wash mode

Reader

Light source

Led-light (lifetime guarantee)

Measurement range

0-4 0 OD

Wavelength selection

400-700nm: 2 filters are supplied (selection between 5 of which:

405nm, 450nm, 492nm, 530nm, 630nm) upgradable up to 4 filters

Single wavelength 10 seconds; dual wavelength 15 seconds

Measurement time

OPTIONAL (available upon specific request)

Chemiluminescence Reader

Measurement range

1 to 1 million RLU

Measurement time

1 minute

Software

Interface

Operating System Windows 7

Diagnostic

Ethernet

Remote access control for: firmware upgrade, analytic script test upgrade, auto-diagnostic check & report

Dimension

Height

1940 mm

Width

2400 mm.

Depth

1020 mm.

Weight

450 kg.

Power supply requirements

Power: 1200VA Voltage: 220 V Frequency: 50/60 Hz

Regulations compliance

CE Marked, in compliance with EMC-BT (EN 61326-1, EN 61326-2-6, EN 61010-1

EN 61010-2-081+a1, EN 61010-2-101) as well as the directive of IVD 98/79/CE

Temperature 15°C-50°C, relative Humidity 30-80%

Operating lab condition



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EN ISO 13485:2013 Certified



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