

THE NEW DIMENSION FOR THE LABORATORY



quantitative D-Dimer

two channels, low reagent volume, cost-effective measurements

Cat.No. 80 600 00

CE-approved

DIMEX

The Dimex is a two channel optical instrument designed for fast quantitative determination of D-Dimer from Human plasma.

The test procedure is optimised for easy handling and quick turnaround time.

The accurate and precise results can be reported in various dimensions.

The principle of detection is based on the agglutination of D-Dimer antigen in the assay sample, with D-Dimer monoclonal antibody coated latex particles. The rate of agglutination is proportional to the decrease in transmitted light. The Dimex utilizes a unique modified kinetic algorithm, which eliminates false results caused by the "High-Dose-Hook" effect. In addition, results are already available in **80 seconds**. Further, either duplicate or single measurements can be made.

Pipetting scheme:

- 25 µL Plasma (sample)**
- + 50 µL Reaction Buffer**
- + 50 µL Latex**

The Dimex is perfectly suitable for all laboratories, as well as Emergency Rooms, Clinics and physician office laboratories.



Dimex

Tests

Quantitative D-Dimer (other tests under development)

Assay range for sample concentrations

50–5.000 ng/mL (undiluted plasma), linear
> 5.000 ng/mL (1:10 pre-dilution of sample)

Measure dimension

dE/min

Selectable dimensions

mg/L, µg/mL, µg/L, ng/ml

Coefficient of Variation (CV - with TECO reagents)

at 200 ng/mL: <10%; at 1000 ng/mL: <7%; at 2000ng/mL: <5%

Development, Manufacturing and Sales:

Distribution through:

TECO Medical Instruments
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Technical Description

The **Dimex** is a microcomputer controlled instrument with two optical channels and a LC-Display. The tests will be automatically selected when entering the measure mode. The dialog language is user friendly and available in English, German, French, Spanish, Italian and Portuguese.

The Main program offers following menus:

- ANALYSIS
- CALIBRATION
- SYSTEM
- SERVICE

The measurement starts automatically with the addition of the Latex reagent. The results are displayed in units of optical density and can be converted into mg/L, µg/L, µg/mL or ng/mL. An optional connected printer will automatically print out all results with optic, patient and test information. The patient identification No. can be selected between:

- NO PAT.ID
- MANUAL ENTRY
- AUTOSERIES
with Start No.
- BARCODE

Using the TECO Softwaretools, the reaction curve data can be transmitted to a personal computer, and loaded by any spreadsheet with graphic functions. Instrument software updates are easily done from a personal computer to the instrument.

Technical Data

Device

SMD Boards
V-25 Microcomputer
18-bit Analog Digital Converter
128 KByte Flash-EPROM
128 KByte EEPROM

Power Supply (external)

Input voltage: 94 to 243 Vac
Input frequency: 50 to 60 Hz
Power output (max): 40 VA
CSA, UL, TÜV-GS, CE-Mark

Optic block

2-channel Optics (660nm)

Keyboard

Foil keyboard, 3x8 matrix with Test-, Functions- and Numerical keys

Display

4 lines x 20 Characters
Liquid Crystal Display

Incubation block

12 pre-warming positions
2 measure positions
1 Reagent position, mixed for different adapters
1 Reagent positions Ø 15 mm
1 Reagent position Ø 22,5mm
Temperature: 37,0°C ± 0,2°C

Digital Pipette (optional)

Volume: 10 - 100 µL

Thermal Printer (optional)

external, serial printer for the Print-out of all results
Print-out of Test parameters
Print-out of System parameters
Print-out of Service parameters

General data:

Weight: 4 kg
Dim.:(LxWxH): 23x20x11cm
Ambient temperature: 18-25°C

Standard package

1 Pc Dimex
1 Pc Power Supply
1 Pc Mains cable
25 Pcs Single cuvettes
5 Pcs Reagent container
1 Pc Magnetic stirrer
1 Pc Reagent adaptor
1 Pc Printer cable
1 Pc Operation Manual
1 Pc Warranty card
1 Pc Installation report
1 Pc Service report

Consumables and Accessory

20 000 02 Single cuvettes
20 025 00 Digital Pipette
19 030 01 Reag.adaptor Ø 22,5
19 030 02 Reag.adaptor Ø 22,8
19 030 03 Reag.adaptor Ø 24,2
19 030 04 Reag.adaptor Ø 27,8
19 030 05 Reag.adaptor Ø 25,2
19 070 00 Barcode scanner
80 050 06 Stirring magnets
80 525 00 Reagent container
80 530 00 Reagent tubes
80 535 00 Thermal printer, EU
80 535 01 Thermal printer, US
80 535 02 Thermal printer, JPN
80 920 07 Pipette tips
80 920 12 Thermal paper
80 920 14 Printer cable

Reagents

80 960 00 Dimex Cal. Kit
2x2,5ml Latex
2x2,5ml Reaction Buffer
1x8ml Saline Solution
2x1ml TECal DD 0
2x1ml TECal DD 1
2x1ml TEControl DD low
2x1ml TEControl DD high

single components:

80 950 03 Saline Solution
80 950 04 TECal DD 0
80 950 05 TECal DD 1
80 950 08 TEControl DD low
80 950 09 TEControl DD high