LUMIPULSE® G600II

Technical sheet

MAIN SPECIFICATIONS

Size	890 (W) x 725 (D) x 642 (H) mm
Weight	Approx. 70 kg
Usage environment	• Temperature : 15°C to 30°C • Humidity : 40% to 80%RH (non-condensing) • Temperature fluctuation : Within ±2°C during assay • Altitude : 2000 m or less
Power supply	• Voltage (For Europe) : AC100-240V, single phase, 50/60Hz With voltage fluctuation of 10% or less • Power consumption: 360VA • Heat discharge: About 1080kJ/h
Transportation / storage environment	• Temperature: 0 to 50 °C • Humidity: 10% to 90% RH (non-condensing)
Acceptable specimen	• Serum • Plasma • Urine • Others (liquid equivalent to serum or plasma)
Number of assays simultaneously analyzed	8 assays (max.)
Processing capacity	60 tests/hour (cycle time: 60 sec.)
Refrigerator function	Temperature reached within 120 min. (Continuous cooling possible) • Reaction line: 30 min.

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Input system	• Keyboard: Software keyboard • Pointing device : Touch panel • Barcodes on Substrate Solution bottle and Specimen Diluent 1 bottle: Hand-held barcode reader • Online: RS-232C / LIS
Output system	• Display: 8-inch LCD • Built-in printer • USB flash drive • Online: RS-232C / LIS
Specimen setting method	• Series of 37 sample holders
Specimen	• Sample cup: Hitachi cup (No.716-0425) • Blood collecting tube: 13(ID) x 16(OD) x 100 mm 13(ID) x 16(OD) x 75 mm 10.5(ID) x 13(OD) x 100 mm 10.5(ID) x 13(OD) x 75 mm
Dead volume	• Sample cup: 100 µl • Blood collection tube: 250 µl
Sample loading	36 specimens (including 3 priority specimens)
Sampling method	• Disposable Sampling tip • Micro-syringe - With liquid level detection - With clot detection - Number of Sampling tip: 192 pcs (96 pcs x 2 racks)
Sample volume	• Specimen: 10 to 140 µl/test
Specimen identification	Barcode reader • Barcode type: NW7, CODE39, CODE 128, ITF, Standard 2 of 5 • Number of digits: 20 digits (max.)
Reagent type	• Immunoreaction Cartridge: Ferrite particle and Conjugate are protected with aluminum seal. • Substrate Solution: AMPPD solution is sealed with aluminum seal. • Specimen Diluent: Lumipulse G Specimen Diluent 1 • Wash Solution: Lumipulse G Wash Solution • Rinse Solution: Purified water

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Number of reagent sets

- Immunoreaction Cartridge: 8 trays (max.) (14 Cartridges/tray)
- Capacity, Substrate Solution: 50 ml x 2 bottles
- Capacity, Specimen Diluent: 80 ml x 1 bottle
- Capacity, Wash Solution: 5 l x 1 tank
- Capacity, Rinse Solution: 100 ml x 1 bottle

Reagent environmental requirements

- Immunoreaction Cartridge: 5 to 15°C
- Substrate Solution: 5 to 15°C
- Specimen Diluent: Ambient temperature
- Wash Solution: Ambient temperature
- Rinse Solution: Ambient temperature

Reagent protection

Protected with aluminum foil seal

- Immunoreaction Cartridge: Protected against evaporation, light, temperature and foreign matter such as dust.
- Substrate Solution: Protected against CO_2 gas, evaporation, light, temperature and foreign matter such as dust.

Protection with Soda lime

- Protected against CO_2 gas

Reagent dispensing method

- Sampling tip method: Dispensing of Specimen, Conjugate and reaction solution of Specimen and Conjugate.
- Line dispensing method: Dispensing of Specimen Diluent, Wash Solution, Substrate Solution and Rinse Solution.

Quantity of reagent used

- Substrate Solution: 200 µl/test, 250 tests per bottle
- Specimen Diluent: 0 to 550 µl/test, up to 145 tests per bottle
- Wash Solution: 7380 to 11620 µl/test, 677 to 430 tests per tank

Reagent status

- Immunoreaction Cartridge: Lot No., serial No., expiration date and count down
- Substrate Solution: Lot No., serial No. and expiration date, count down and remaining volume detection
- Specimen Diluent: Lot No. and expiration date, count down and remaining volume detection
- Wash Solution: remaining volume detection

Reaction vessel

- Immunoreaction Cartridge

Reaction unit

- Immune reaction unit: Turntable system (28 reaction cells)
- Enzyme reaction unit: Turntable system (5 reaction cells)

Reaction time

	One-step method	Two-step method
1st Immunoreaction	20 minutes	10 minutes
2nd Immunoreaction	0 minutes	10 minutes
Enzyme reaction	5 minutes	5 minutes

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Washing unit

- Performance of washing steps
  - 1st Washing Step: Skipped when using the 1-step method
  - 2nd Washing Step: Performed in all assay
  - 3rd Washing Step: Performed in all assay
- Number of washes
  - 1st Washing Step: 4 times
  - 2nd Washing Step: 3 times
  - 3rd Washing Step: 3 times

Agitator unit

- Agitation method: Vortex mixing
- Agitation timing
  - 1st agitation: After sample dispensing
  - 2nd agitation: At the start of 2nd reaction
  - 3rd agitation: After the 2nd washing
  - 4th agitation: Immediately after dispensing Substrate Solution

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