

COMMODITY DESCRIPTION

물품목록번호	품목번호	품 명	단위	수량
41113037-24988 312	1	BMG VANTAstar Microplate reader	Set	1

A. Feature

1. Superior LVF monochromator sensitivity in fluorescence & luminescence detection mode (TRF, TR-FRET, LUM, BRET, FP),
2. Ultra-fast full-spectrum UV/Vis absorbance measurements in less than 1 second per well
3. Largest possible dynamic measurement range from 0 to 700 million counts (EDR-Technology)
4. Fluorescence and luminescence spectral scans
5. Linear, orbital and double-orbital shaking modes with user-definable time and speed
6. Data Analysis Software includes (Linear regression, 4- and 5-parameter, Hyperbola, Segmental regression, Cubic spline, 2nd and 3rd polynomial, EC50, IC50, r2 result)
7. Software is FDA 21 CFR part 11 compliant (included)
8. Most robust reader for extensive and long-term shaking assays & Movement among corner wells
9. Light sources: High energy xenon flash lamp
10. Temperature control up to 45°C with condensation prevention system (65°C Option)
11. Unique Atmospheric Control Unit (ACU) for O₂/CO₂controlandfastgasramps (Optional)

B. Consist of following

- | | |
|---|-------------|
| 1. VANTAstar Plate reader | ----- 1 Set |
| 2. Softwar for alaysis & Data processing system | ----- 1 Set |
| 3. Accessories | ----- 1 Set |

C. Specifications

1. VANTAstar Plate reader ----- 1 set
 - 1) Fluorescence : Filter & Monochrome type
 - 2) For FI and FRET excitation and emission user can choose LVF monochormator, EaayClick filters of combination of both Fluorescence excitation / emission spectral and 3D scanning
 - 3) Fluorescence wavelengths for EX and EM: 240 to 740 nm
(Continuously adjustable monochromator wavelengths : 340 to 740 nm)
 - 4) Spectral scan range can be resolved in 0.1 to 10 nm steps
 - 5) Monochromator bandwidths for EX and EM contiuously adjustable from 8 to 100nm (in 1 nm steps)
 - 6) Endpoint and Kinetic Measurements
 - 7) Multiple reads per well in orbital, spiral and matrix pattern
 - 8) Largest possible dynamic measurement range from 0 to 700 million counts (EDR-Technology)

- 9) Temperature control up to 45°C with condensation prevention system
- 10) Reads 6-, 12-, 24-, 48- 96- and 384-well plates (optional Terasaki plates, petri dishes, slides) and LVis Plate with 16 low volume microspots (2 µL)
- 11) Light source: High energy xenon flash lamp
- 12) Top optics with Z-height autofocus (0.1 mm resolution)
- 13) Linear, orbital and double-orbital shaking modes with user-definable time and speed
- 14) Simple robotic integration
- 15) Software package: Multi-user Reader Control and MARS Data Analysis Software includes (can be installed by an unlimited number of users at no extra cost)
- 16) Software is FDA 21 CFR part 11 compliant (included)
- 17) Performance Specification
 - (a) FI dynamic range: 8 decades in a single measurement
 - FI monochromator (top): < 0.8 pM (< 16 amol/well FITC)
 - FI monochromator (bottom):< 3.5 pM (< 175 amol/well FITC)
 - (b) ABS with spectrometer: Full spectrum captured in < 1 s / well
 - : Selectable spectral resolution: 1, 2, 5, and 10 nm
 - OD range: 0 - 4 OD
 - Accuracy: < 1% at 2 OD
 - Precision: < 0.5% at 1 OD and < 0.8% at 2 O
- 18) Detectors: Low-noise photomultiplier tube Red-shifted photomultiplier tube CCD spectrometer
- 19) Optical filters:Excitation and emission slides for up to 4 filters each
- 20) Optical path: Top and bottom free-air optical light path guided by motor-driven mirrors and dichroics
- 21) Z-Adjustment: Automatic focal height adjustment (0.1 mm resolution)
- 22) Shaking: Linear, orbital, and double-orbital with user-defi nable time and speed

2. Softwar for alaysis & Data processing system	-----	1 Set
1) MARS Data Analysis Software		
2) DATA Processing System : Desk Top		
3. Accessories	-----	1 set
1) POWER CABLE		
2) Instrument Maual		

D. Remarks

1. Test-run and installation will be performed by a maker-trained/certified engineer.
2. Provides IQ.OQ Check upon installation