Biosan SIA., Ratsupites 7, build. 2, Riga, LV-1067, Latvia, Phone: +371 674 261 37, Fax: +371 674 281 01, E-mail: marketing@biosan.lv, http://www.biosan.lv



HiPo MPP-96, Microplate Photometer

Microplate Photometer HiPo is a compact tabletop device for measuring the results of ELISA and microbiological studies in 96-well microplates. Photometer is controlled and outputs data via computer. An extensive range of additional interference filters is available (with average increment of 10 nm).

The device is supplied with specialized software QuantAssay. Features of QuantAssay software:

- · ELISA assays of any complexity can be carried out via robust assay editor with help of Assay Wizard
- · Quantitative assay includes up to 20 standards
- Avidity/Affinity assays
- · Multiplex assays with up to 7 assays on one plate
- · Qualitative assay includes up to 11 controls
- BestFit function for selecting the best calibration curve
- · User friendly interface: get your results in 3 clicks
- · Save, load and export results
- · Creates visual reports
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Detection mode	Absorbance				
Light source	LED, self-calibrating				
Photodetector	8 silicon photodiodes				
Plate type	96-well microplates (including strip-well microplates)				
Reading Speed	5 - 8 s per wavelength				
Measurement modes	Endpoint				
Measurement channels	8				
Reference channel	1				
Measurement range	0 – 4.3 OD				
Resolution	0.001 OD				
Wavelength range	400 – 700 nm				
Wavelength selection	up to 8* filters on wheel standard filters 405, 450, 492 and 620 nm				
Shaking	4 amplitudes, 4 speeds				
Software	QuantAssay				
PC system requirements	Intel/AMD Processor, 1 GB RAM, Windows Vista/7/8, USB				
Overall dimensions ($W \times D \times H$)) $140 \times 300 \times 130 \text{ mm}$				
Weight	4.6 kg				
External power supply	Input AC 100–240 V 50/60 Hz, Output DC 12 V				
* — It is possible to install up to 4 additional filters on request. Additional filters are available in two specifications: optical absorption not less than 3.5 OD or 4.3 OD					
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available in two	specifications:	optical	absorption	not less	than	3.5	OD	or	4.3 OD

ORDERING INFORMATION:	Cat. number				
HiPo MPP-96	BS-050108-A02				
Optional accessories:					
OD Plate, Verification tool	BS-050108-AK				
Additional filtres*	On request				





Product video is available on the website





Accuracy (405, 450, 492, 620 nm)					
0.000 – 2.000 OD	\leq (0.5 % \pm 0.010 OD) typical				
2.000 - 3.000 OD	\leq (1 % \pm 0.010 OD) typical				
Precision / Reproducibility (405, 450, 492, 620 nm)					
0.000 – 2.000 OD	\leq (0.5 % ± 0.005 OD)				
2.000 - 3.000 OD	\leq (1.0 % ± 0.005 OD)				





Quant Assay, Software for MPP-96

Quantitative assay includes up to 20 standards; User can choose Standard/Reverse type of curves

Software video is available on the website

ELISA assays of any complexity can be carried out via robust assay editor with help of Assay Wizard:

1:38:27)	
	Wavelength
1 v Pos. control count	405 nm Channel 1
1 👻 Neg. control count	450 nm Channel 2
1 👻 Group count	490 nm Channel 3 620 nm Channel 4
Standards count	Description
	Description
	1:38:27) 1 Pos. control count 1 v Neg. control count 1 v Group count

Qualitative assay includes up to 11 controls;

Results can be outputted as Positive/Negative or Positive/Gray Zone/Negative;

Gray zone can be set as symmetric and non-symmetric; Positivity ratio can be outputted

Choose Results types for Qualitative Assay



Avidity/Affinity results be outputted as Positive/Negative or Positive/Gray Zone/Negative;

Avidity index margins can be easily set;

Avidity Index can be outputted

	Margin	Result
If AI <	0.30	+
If AI >=	0.30 💭 and 0.50 💭	< ++
If AI	>= 0.50	+++

User friendly interface: get your results in 3 clicks: Choose an assay, a template and press Play



Save, load and export results Creates reports: Excel, PDF, CSV



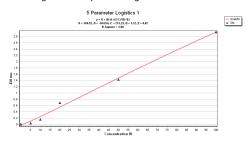
Choose a type of Quantitative Assay

Quantitative Standard (OD directly proportional to the conc.)

Quantitative Reverse (OD inversely proportional to the conc.)

BestFit function for selecting the best calibration curve from following models:

4/5 Parameters logistics, Piece-wise linear, Linear, Index/Logarithm/Exponent regression models



Install up to 7 assays on one plate by using multiplex

	1	2	3	4	5	6	7	
A	Smp1							
	0	1	2	3	4	5	6	
B	Smp2	I						
	0	1	2	3	4	5	6	
С	Smp3	Ī						
	0	1	2	3	4	5	6	

Easy fill of the samples

Nam Grou	e Smp p 2	2 💭 Reset	x Test	- Bkg	P ₁	• N	√ 1 − [×]	Std -	х
	1	2	3	4	5	6	7	8	9
A	Smp1	Smp1							
	0.008	0.008	1.296	1.368	1.915	1.814	1.581	1.633	2.592

PDF report contains: Experiment information, Results table, List of variables and it's calculations, Interpretation parameters

								Results					
Cell	Type	Sample Name	лм	Group	OD 450 nm	Result 1	Result 2	Given Concentration	Mean Concentration	Calculated Concentration	Mean (OD)	Standard Deviation (OD)	Coefficient of Variation (OD)
A1	80	Std S0			0.008	OK		0 IU	1.24 IU	1.24 IU	0.008	0.000	0.00%
A2	\$0	Std S0			0.008	OK		0 IU	1.24 IU	1.24 IU	0.008	0.000	0.00%
A3	T1	Smp1		1	1.296	In Range			45.21 IU	44.05 IU	1.332	0.036	2.70%
м	T1	Smp1		1	1.368	In Range			45.21 IU	46.38 IU	1.332	0.036	2.70%
A5	Τ9	Smp0		9	1.915	In Range			62.62 IU	64.30 IU	1.885	0.051	2.71%
Aß	Τ9	Smp9		9	1.814	In Range			62.62 IU	60.95 IU	1.865	0.051	2.71%
A7	T17	Smp17		17	1.581	In Range			54.14 IU	53.29 IU	1.007	0.026	1.62%
A8	T17	Smp17		17	1.633	In Range			54.14 IU	54.99 IU	1.607	0.026	1.62%
A9	T25	Smp25		25	2.592	Out of Range			119.57 IU	87.51 IU	3.456	0.854	25.00%
A10	T25	Smp25		25	4.320	Out of Range			119.57 IU	155.56 IU	3.456	0.864	25.00%
A11	T33	Smp33		33	0.810	In Range			28.47 IU	28.47 IU	0.810	0.000	0.00%
A12	T33	Smp33		33	0.810	In Range			28.47 IU	28.47 IU	0.810	0.000	0.00%
B1	S1	Std S1			0.038	OK		SIU	2.48 IU	2.48 IU	0.038	0.000	0.00%
B2	51	Std S1			0.038	OK		5 IU	2.48 IU	2.48 IU	0.038	0.000	0.00%
83	T2	Smp2		2	1.080	In Range			38.08 IU	37.12 IU	1.110	0.030	2.70%
84	T2	Smp2		2	1.140	In Range			38.08 IU	39.04 IU	1.110	0.030	2.70%
85	T10	Smp10		10	1.596	In Range			52.41 IU	53.78 IU	1.554	0.042	2.70%
B6	T10	Smp10		10	1.512	In Range			52.41 IU	51.04 IU	1.554	0.042	2.70%
87	T18	Smp18		18	1.318	In Range			45.46 IU	44.76 IU	1.340	0.022	1.61%
88	T18	Smp18		18	1.361	In Range			45.46 IU	46.15 IU	1.340	0.022	1.61%
89	T26	Smp26		26	2.160	In Range			97.84 IU	72.54 IU	2.880	0.720	25.00%
B10	T26	Smp26		26	3.600	In Range			97.84 IU	125.26 IU	2.880	0.720	25.00%
B11	T34	Smp34		34	0.790	In Range			27.83 IU	27.83 IU	0.790	0.000	0.00%
812	T34	Smp34		34	0.790	In Range			27.83 IU	27.83 IU	0.790	0.000	0.00%
C1	\$2	Std S2			0.160	OK		10 IU	7.01 IU	7.01 IU	0.160	0.000	0.00%
C2	82	Std S2			0.160	OK		10 IU	7.01 IU	7.01 IU	0.160	0.000	0.00%
C3	T3	Smp3		3	0.900	In Range			32.15 IU	31.35 IU	0.925	0.025	2.70%

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OD Plate, verification instrument for MPP-96 HiPo



OD Plate is the quality verification instrument for microplate photometer MPP-96 HiPo. The instrument is designed to verify the accuracy and precision of measurements of the photometer at 6 levels of optical density: 0.3; 0.6; 1.0; 2.0; 3.0; 4.0 OD. The instrument is supplied with the following verification wavelengths: 405, 450, 492, 540, 570, 620 and 650 nm. Additional verification wavelengths are available in the range from 400 to 700 nm.

Instrument is provided in a shockproof container with an USB flash drive containing:

- Copy of measurement results in an accredited laboratory
- User manual

Optical density levels	0.3; 0.6; 1.0; 2.0; 3.0; 4.0 OD
Available verification wavelengths range	400 – 700 nm
Standard verification wavelengths	405, 450, 492, 540, 570, 620, 650 nm
Instrument dimensions	$128 \times 86 \times 12 \text{ mm}$
Net weight	0.2 kg

 ORDERING INFORMATION:	Cat. number
OD Plate, Verification tool	BS-050108-AK

