



Plate CLIA

No.:BSEP01005

VersionCode:1.0

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Semi-automatic chemiluminescence immunoassay analyzer

Bioscience PETECK96-I is a state of the art semi-auto chemiluminescence immunoassay analyzer designed to meet the requirements of today's increasing demand on COVID-19 large-scale screening.

Properties and characteristics

Efficient integrated design, precise three-dimensional transmission make the instrument run stably and reliably.

Instrument diagnosis function could help users judging the cause of failure exactly.

Patented technology to prevent interference between wells ensures the accuracy of detection.

Various build-in fitting methods and one/two-point calibration improve the reagent use efficiency.

Improved quality control system could meet the requirement of continuous evaluation of the results.

Various report template, providing kinds of report format for users.

Technical parameters

- ◆ **Dimension:** 530mm x 400mm x 200mm (l x w x h)
- ◆ **Weight:** 15.4Kg
- ◆ **Detection system:** Photomultiplier tube (PMT)
- ◆ **Spectral Range:** 300 ~ 650nm
- ◆ **Measurement time:** 0.05 ~ 10sec/well
- ◆ **Measurement speed:** 1sec/well, <3min for 96-well plate
- ◆ **Interference between wells:** $\leq 5 \times 10^{-5}$
- ◆ **Background noise:** ≤ 100 RLU/sec
- ◆ **Detection range:** 0 ~ 2.5×10^7 RLU/sec
- ◆ **Sensitivity:** $\leq 5 \times 10^{-17}$ mol
- ◆ **Repeatability:** CV<3%



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- ◆ *High sensitivity*
- ◆ *Excellent repeatability*
- ◆ *Wide detection range*
- ◆ *Long shelf life*
- ◆ *No environmental pollution*



| Sample No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | 0.049 | 1.46E | 6.732 | 1.375 | 1.009 | 0.931 | 0.1EC | 6.874 | 0.959 | 1.474 | 0.954 | 1.117 |
| B | 0.046 | 1.46E | 6.732 | 1.394 | 1.009 | 0.940 | 0.177 | 6.874 | 1.913 | 1.481 | 0.960 | 1.121 |
| C | 0.274 | 0.416 | 6.934 | 0.750 | 0.206 | 1.439 | 1.26C | 1.233 | 0.664 | 1.327 | 1.449 | 0.274 |
| D | 0.269 | 0.612 | 6.992 | 0.764 | 0.208 | 1.452 | 1.264 | 1.229 | 0.677 | 1.367 | 1.492 | 0.282 |
| E | 0.582 | 0.251 | 1.244 | 1.862 | 1.024 | 1.176 | 0.266 | 1.236 | 1.177 | 1.117 | 1.221 | 1.246 |
| F | 0.582 | 0.245 | 1.275 | 0.662 | 1.019 | 1.181 | 0.40C | 1.225 | 1.600 | 1.347 | 1.316 | 1.206 |
| G | 0.692 | 0.222 | 6.243 | 0.700 | 1.465 | 0.417 | 0.22C | 6.473 | 0.057 | 0.365 | 1.364 | 1.267 |
| H | 0.610 | 0.222 | 6.303 | 0.771 | 1.505 | 0.438 | 0.24C | 6.473 | 0.061 | 0.367 | 1.384 | 1.264 |

Reagent Properties and characteristics

1. *Venous blood as the sample, which is simple and safe;*
2. *High sensitivity, high stability, good repeatability;*
3. *No laboratory restrictions, large-scale screening;*

Main Components:

Coated Plate, Reagent 1, Reagent 2, Negative Control, Positive Control, Sample Diluent, Wash Concentration, Substrate A, Substrate B, Plate Membrane;



The specificity of IgM is 99.46%,The sensitivity of IgM is 88.89%, the specificity of IgG is 99.19%,the sensitivity of IgG is 85.96%, and the sensitivity of IgG + IgM combined detection is 93.86%.

Packing Information:

| Product | Specification | carton |
|---|---------------|----------------------------|
| Novel Coronavirus (2019-nCoV) IgM Antibody Diagnostic Kit | 96T/kit | 51*38*43cm 28kits/ctn 10kg |
| Novel Coronavirus (2019-nCoV) IgM Antibody Diagnostic Kit | 480T/kit | 51*38*43cm 6kits/ctn 14kg |
| Novel Coronavirus (2019-nCoV) IgG Antibody Diagnostic Kit | 96T/kit | 51*38*43cm 28kits/ctn 10kg |
| Novel Coronavirus (2019-nCoV) IgG Antibody Diagnostic Kit | 480T/kit | 51*38*43cm 6kits/ctn 14kg |

