

Ultra-fast PCR Total Solution

Delivered by P810 Real-time fluorescence PCR instrument and more...





P810 real-time quantitative PCR analyzer is an ultra-fast PCR analyzer developed by Runpon Bioscience. Equipped with intelligent and simple system software and advanced temperature control patent technology, P810 can complete 40 amplification cycles in 8-15 minutes, followed by easy result analysis, data export and upload to LIMS.

P810 Product Advantages



Stable and efficient

Unique temperature control system and variable temperature mode ensure the stability and uniformity of the instrument; excellent heat transduction efficiency improves the specificity and sensitivity of the reaction.



Universal and reliable

Universal 4-channel fluorescence detection, easy to adapt to multiple applications; reliable excitation light source and signal detection technology to effectively avoid cross-interference.



Smart and convenient

Equipped with an intelligent and fully functional software system, it can provide a complete set of solutions for sample detection, data calculation and result analysis.



Excellent quality

International product design and development concept and production process quality control to ensure the excellent quality of each instrument.

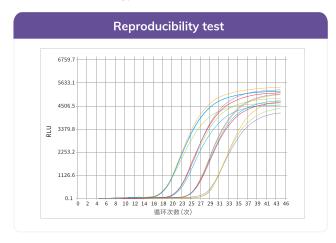
P810 specifications

Real-time fluorescence quantitative PCR analysis system					
Device Information	Туре	Real-time PCR Instrument			
	Model	P810			
Basic	reaction volume	15-25 μL (15 μL recommended)			
specifications	Amplification speed	40 cycles 8-15min			
Temperature control specifications	temperature control technology	Multi-zone temperature control			
	Maximum heating rate	20°C/s			
	Maximum cooling rate	13°C/s			
	Temperature range	15~130 °C			
	Temperature accuracy	Within ± 0.5 °C			
Optical parameters	Excitation light source	High intensity white LED light source			
	Excitation wavelength	420-490nm, 509-545nm, 552-594nm, 607-644nm			
	Detection wavelength	490-532nm, 545-583nm, 594-634nm, 644-686nm			
	Detection device	CMOS camera			
	Number of fluorescence channels	4 channels (blue/green/yellow/red)			

P810 Performance Verification

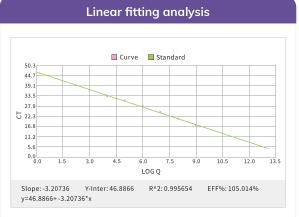
• Excellent reproducibility – ensures reliable results

Repeatability is a key indicator for evaluating the stability and reliability of an instrument, and it is also one of the important manifestations of the credibility of the results. P810 is based on a stable and reliable optical detection system and uniform temperature control technology between wells, which enables excellent data repeatability.

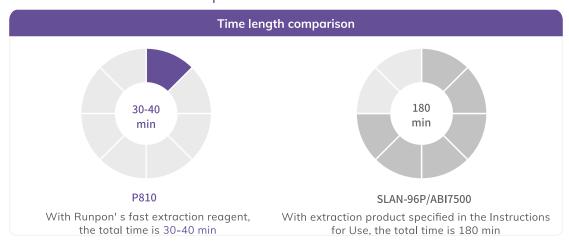


Excellent gradient linearity – ensures data accuracy

P810 uses accurate temperature control and uniform temperature control technology between wells, and is equipped with a rapid amplification reagent system to achieve a gradient linear R2 \approx 0.99, and the amplification efficiency is 105%.



Clinical examination time comparison



Clinical comparison results

Clinical symptoms of respiratory diseases such as fever, cough, sore throat, runny nose, nasal congestion, headache, fatigue, chills, and muscle aches. The clinical evaluation project of respiratory adenovirus (HADV) detection products has enrolled 90 cases. The age of the patients ranges from 4 days after birth to 54 years old, and most of them are children. The main disease types include lung diseases (31.1%), blood diseases (18.9%), Respiratory tract infection (8.9%) and other (39.7%). with reference product

The statistics of the test results are as follows:

HADV detection products	Reference product		2 1 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16 (0E0) CIV
	Positive	Negative	Coincidence rate % (95% CI)	Kappa (95% CI)
Positive	35	3	Positive coincidence rate: 92.1 (78.6-98.3)	0.863 (0.758-0.969)
Negative	3	49	Negative coincidence rate: 94.2 (84.1-98.8)	

The clinical evaluation project of respiratory syncytial virus (RSV) detection products has enrolled 146 cases. The age of the patients ranges from 4 days after birth to 583 years old, and most of them are children. The main disease types include lung diseases (34.9%) and blood diseases (14.4%), respiratory infections (11.0%) and others (41.1%). The statistics of the test results compared with the control product are as follows:

RSV products	Reference product		6 :	(OF9) (CI)
	Positive	Negative	Coincidence rate % (95% CI)	Kappa (95% Cl)
Positive	69	4	Positive coincidence rate: 90.8 (81.9-96.2)	0.849
Negative	7	66	Negative coincidence rate: 94.3 (86.0-98.4)	(0.764-0.935)

As shown above, the coincidence rates are greater than 90% and the Kappa value is higher than 0.75, indicating the high consistency and equivalent clinical value of our HADV test and RSV test based on P810 compared against the mainstream respiratory pathogen detection products based on ABI7500.

P810 Operation Flow





№ P810 compatible reagents and consumables

Serial No.	Product name
1	Viral DNA/RNA Extraction Reagent (Magnetic Bead Method)
2	Viral DNA/RNA Rapid Extraction Reagent (Magnetic Bead Method)
3	Viral DNA/RNA extraction reagent (alcohol-free magnetic bead method)
4	Respiratory Adenovirus (HADV) Nucleic Acid Detection Kit (PCR-Fluorescent Probe Method)
5	Respiratory syncytial virus (RSV) acid detection kit (PCR-fluorescent probe method)
6	Automatic Nucleic Acid Extractor RP-Q32/RP-Q16
7	96 well deep well plate
8	8 magnet bar sleeves
9	One-step rapid reaction starting material
10	fast DNA polymerase
11	fast reverse transcriptase
12	PCR capillaries
13	Capillary Loading Holder (Lab Consumables)

^{*}These products are protected by patent



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