

PUS-2018G Biochemistry Analyzer

Introduction:

The PUS-2018G Biochemistry Analyzer is a high performance instrument which can be used in the hospital and other correlated places for biochemical tests. Its characteristic is simplicity of operation, high sensitivity and exact detection data and so on. This instrument safe classification belongs to B model of I . It has liquid crystal display to realize the man-machine conversation of programming and detection, besides its setting and detecting operation are easy and straightforward.

This instrument is mainly used to do the detection and analyzer of the clinic biochemistry index in hospital and other correlated department. Notice: We do not provide reagent, so you should buy them by yourselves. Be sure that the reagents you buy are biochemical reagents and enrolled in country.



Features:

1. The instrument can do detection, program and enquiry as well as drawing quality control curve.
2. The instrument can pre-sort at least 200 programs of detection item and at least 5000 detection results.
3. The instrument can show and print calibrating curve, Kinetic reaction curve, and print quality control curve.
4. The instrument has the function of mono-crotic and dual wavelength detection;
5. The instrument can detect by the means of absorbance, kinetics, terminal, two-point, standard curve, blank comparing pipe and factor. It can print single report in real time, and also can print general report.
6. The instrument will auto-check first after it is switched on and it also can communicate.
7. The instrument has half press dormancy function.
8. RS232 Communication which can connected to PC, thus can manage, collect and print the data. Measured values can be transmitted to PC for further processing

Specifications:

Parameter	Value
Wave length Range	340 - 750 nm
Center Wavelength Accuracy	± 3
Semibreadth	≤ 12
Standard Configuration	340, 405, 492, 510, 546, 578, 630
Stray light	Detecting with standard solution in 340nm wavelength, its absorbance is more than 2.0.
Measurement range	0.000 ~ 3.000 Abs
Colorimetric Pool	Titanium alloy
Linearity error	The linearity error of absorbance analysis should be less than 1.0%
Repeatability	The repeatability of absorbance analysis should be less than 0.005.
Stability	In schedule time, its absorbance change is less than 0.01.
Temperature accuracy	When the temperature of liquid that will be detected is 37°C, 30°C and 25°C, and the accuracy is ±0.2°C, the undulant value should be less than 0.4°C.
Cross pollution rate	The cross pollution rate should be no more than 1.0%.
Accuracy of prove	With quality control serum as the sample to be detected, to do the detecting items of Kinetic and Terminal method respectively, the detection result should accord with the requirement of quality control serum manual.
Printer	Outlay USB printer
Communication	RS232 serial port (The communicated computer must accord with the standard)
Display	7.5" LCD liquid crystal display (640*480 resolution ratio)
Fuse	φ5×20 2A 2
Packing size	560 x 405 x 280
Net weight	11 kgs
Gross weight	14 kgs
Test Method	Absorbency, End-point, Kinetic, Two-point, Standard Curve, Control Tube, Factor

Operating Conditions:

1. Environmental temperature: 10°C~30°C.
2. Relative humidity: ≤70%
3. Power supply: 220 V, 50 Hz.
4. Input power: 160VA.
5. Warm-up time: 10min.
6. Keep away from strongly electromagnetic field.
7. Avoid direct irradiation by strong light.
8. Avoid dust, shake and there must be no caustic gas such as hydrochloric acid in air;
9. Power supply must be earthed perfectly.

PUS-2018 Biochemistry Analyzer with Internal Printer

PUS-2018 Semi-automatic Biochemistry Analyzer is a high performance photometer and can be used in the clinic of hospitals, epidemic prevention stations and health protection stations for biochemical tests. The instrument has a dedicated keyboard that enables you to rapidly change functions and set parameters, which can be checked on the display without applying difficult commands. Display is a liquid crystal one with alphanumeric and graphic options. Setting and detecting operations are easy and straightforward.

PUS-2018 Semi-Biochemistry Analyzer can test glucose, sodium ions, potassium ion, liver function test .etc It totally can test 35 items, as below: The Test Items in brilliant rose are you interested in. Other items the machine can also test with the biochemistry reagents. Definitely you can buy the reagents from local market .As the biochemistry Reagents are strict with shipping circumstance, so we recommend our customer buy them from local market, don't worry, the machine is open system .



Specifications	
Wavelength Range :	300nm~800nm
Measurement Range :	0.100~3.000Abs
Center wavelength accuracy :	±3.0
Half the width :	≤12
Precision :	±0.001Abs
Repeatability :	≤0.005Abs
Stability :	≤0.01Abs
Linearity :	≤±1%
Stray light :	≥2.0Abs (340nm)
Cross-contamination :	≤1% (Aspiration volume 600ul)
Temperature Accuracy :	±0.1°C
Test Temperature :	37°C,30°C,25°C
Accuracy error of test temperature :	±0.2°C
Test Method :	end-point, kinetic, two-point , standard curve and simple/double wavelength exam.
Colorimetric Pool :	Titanium alloy
Reagent :	400μl~800μl Match all kinds of reagent
Sample volume :	20~50μl
Display :	Photometric absorbance, density, active unit, and normal parameters
Print :	Internal Print
Communication :	RS232 serial port
Fuse :	φ5×20 2A 2
Net Size :	450×305×185mm
Packing Size :	560 x 405x 280 mm
Net Weight :	9 Kgs
Gross Weight :	13 Kgs
Working Conditions :	
Temperature:	10~30°C
Relative humidity :	≤70%;
Power supply :	220× (1±10%) V, 50× (1±2%) Hz
Input power :	160VA
Warm-up time :	10min

Note:

- Keep away from strongly electromagnetic field;
- Avoid direct irradiation by strong light;
- Avoid dust and shake.
- There must be no caustic gas such as hydrochloric acid in air;
- Pollution level 2
- Power supply must be earthed perfectly.
- Transient over-voltage type II category

Features:

1. The instrument has a 7-wavelength static photometric group with 340, 405, 492, 510, 546, 578, 630 nm filters. It can select working wavelength by itself; (Most 9 configurable filter)
2. The instrument can keep 100 programs and 200 tests in its memory. You can program parameters either beforehand or at current time based on your needs;
3. The instrument can detect by the means of absorbance, kinetics, terminal, two-point, standard curve, blank comparing pipe and factor;
4. The instrument can print detection report that makes it easy to analyses and persevere;
5. The instruments will auto-check first after it is switched on.
6. RS232 Communication which can connected to PC, thus can manage, collect and print the data..Measured values can be transmitted to PC for further processing

Item	Test Item	Reference Value	Item	Test Item	Reference Value
1	Glucose	4.533.9-6.1	19	TBA	4.10-14
2	Sodium ions	144.20136-145	20	Cholinesterase	7594.04300-13200
3	Potassium ion	3.933.5-53	21	Prealbumin	347.00200-400
4	Chlorine	106.1096.-108	22	a-L-fucosidase	20.05-40
5	Ca ion	106.1096.-108	23	Bicarbonate (HC03-)	27.020.2-29.2
6	Phosphor	1.250.74-1.52	24	Urea	6.462.4-8.2
7	Liver function test(TP)	74.461-82	25	Creatinine	82.131.8-116.0
8	Liver function test(ALB)	48.336-51	26	Uric acid	276.590-420
9	Liver function test(GLB)	26.125-35	27	Total cholesterol	4.163.08-6.35
10	Liver function test (Albumin globulin)	1.91.2-2.85	28	Triglyceride	1.690.34-1.92
11	Liver function test(TBil)	27.704-23.9	29	High-density lipoprotein cholesterol	1.180.78-2
12	Liver function test(DBIL)	7.560-6.8	30	Low-density lipoprotein cholesterol	2.462.07-3.1
13	Liver function test(IBIL)	20.202.56-20.9	31	Apolipoprotein A	11.511.00-1.6
14	Liver function test(AST)	14.5-40	32	Apolipoprotein B	1000.660.6-1.1
15	Liver function test(GPT)		33	Lipoprotein A	90.60-300
16	Aspartate, alanine aminotransferase ratio	0.57 09.1-2.25	34	Cysteine protease preparations Yang	0.860.55-1.55
17	GGT	68.07-50	35	Serum amylase	57.00-125
18	ALP	61.035-125			

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