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The Microbial Growth Curve Analyzer comprehensively addresses the differentiated cultivation needs of diverse microorganisms. Whether they are oxygen-dependent obligate aerobes, microaerophiles that prefer low-oxygen environments, or even oxygen-sensitive strict anaerobes, it enables their growth and proliferation under suitable culture conditions. The entire microbial cultivation and growth curve analysis process requires no on-site supervision or frequent sampling, completely eliminating contamination risks and truly freeing up manpower.

Microbial Growth Curve Analyzer TGC-100

The TGC-100 uses conventional test tubes as culture vessels. Combined with an advanced optical system and mechanical design, it enables large-volume culture and precise optical density measurement. It can simultaneously test up to 36 microbial samples in real time, automatically recording growth concentration changes and results. It also features an adjustable speed oscillation system and wide-range temperature control. The detection wavelength is 600nm, with an absorbance range of 0-30OD/0-15OD, and a linear error of ≤2%. The light source is a laser diode with a lifespan of 20,000 hours. The sampling interval is programmable from 3 to 10 minutes. The culture tubes are 18mm in diameter and 150nm high.

model	TGC-100		
Detection wavelength	660nm (equivalent to OD600)	Shaking speed	50-800rpm; can be cultured statically
Absorbance range	0~30OD/0~15OD	Reference channel selection available	YES
Linearity error	<2%	Post-image processing and professional display	YES
light source	Laser diodes	Sterilization module	YES
Light source life	20,000 hours	Dark current reduction function	YES
Sampling interval	3-10 minutes can be set	Optical path standardization	YES
Working hours	1~1600h	Mid-course temperature change function	YES

Culture tube	Diameter 18mm, height 150mm	Background color subtraction	YES
Maximum number of boards	36	Audit Trail	YES
Maximum culture medium capacity	20ml (3ml-20ml)	Troubleshooting	The alarm code is detailed and can be quickly determined as the cause of the fault
Cultivation temperature	30℃~60℃@25℃/	Interface Operation	The interface is friendly, users can quickly get started, and it has quick operation function
	Optional cooling: 4～60℃@25℃	communication	RJ45 network interface
Temperature control accuracy	±0.1 degrees	Main interface	Parameter setting interface, status display interface, sample selection interface,
Heating speed	1 degree/minute		Data display interface, result analysis interface
Shaking method	Horizontal circular shaking	More menu	Startup interface, login interface, initialization interface and debugging interface
Shaking amplitude	2mm	Alarm function	YES

Microbial Growth Curve Analyzer MGC-500/200

The Microbial Growth Curve Analyzer MGC-500 is a fully automated instrument that can detect the growth status of microorganisms in real time under different culture temperatures, different gas environments, different shaking states, and different light combinations, and automatically draw growth curves, providing powerful support for microbial research such as fine-tuning culture conditions, exploring the performance of different strains, and evaluating antibiotic sensitivity. The

culture medium volume is capped at 2.5ml, with 2 plates and a maximum of 192 channels, operating at 15-60°C (room temperature 25°C), 15-45°C (with gas concentration control enabled), an absorbance range of up to 8.0OD, and a maximum culture time of 1600 hours.

model	**MGC-200**	**MGC-500**
Overall dimensions (width*depth*height)	530×680×360mm	
Detection wavelength	300-850nm	
Microbial culture container	Cell culture plates/ELISA plates	
Number of channels	2 board positions, up to 192 channels	
Upper limit of culture medium volume	2.5ml	
light source	Xenon lamp	
Temperature control range	15-60℃ (room temperature 25℃)	15-60℃ (room temperature 25℃), 15-45℃ (gas concentration control on)
Mid-course temperature change function	YES	
Shaking speed	200-1250 rpm/static culture	
Detection method	Single hole multi-point detection	
Absorbance range	Maximum value 8.0OD	
Detection time interval	5-360 minutes can be set	
Maximum culture time	1600 hours	
Permission Management	User and administrator permissions	
Sterilization module	UV sterilization	
Full spectrum scan	YES	

Heated cover to prevent condensation	YES	
Humidity detection	YES	
Reference channel selection	YES	
air intake	NO	4
CO2 concentration monitoring	NO	1-20%
O2 concentration monitoring	NO	0.5-20%
Anaerobic culture	NO	YES
Gas Control	NO	YES
Lighting function	Optional	

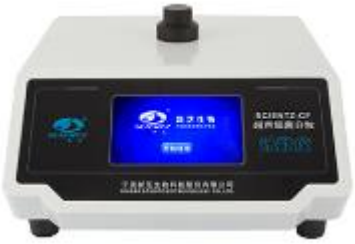
Microbial Growth Curve Analyzer SCIENTZ-WSQ

The SCIENTZ-WSQ Microbial Growth Curve Analyzer utilizes turbidimetry to plot microbial growth curves and integrates temperature-controlled oscillating incubation capabilities. This automated microbial research instrument is designed for online monitoring and cultivation of a wide range of microorganisms. It features 36 channels and is suitable for both anaerobic and aerobic microorganisms. The instrument can be set to run for 5 to 360 minutes, with a range of 0 to 5 OD600, a detection wavelength of 600 nm, a temperature range of 4 to 45°C, and a rotation speed range of 50 to 250 rpm.

model	SCIENTZ-WSQ	SCIENTZ-WSQ/A
Number of channels	36 channels	36 channels
Adaptable strain types	Anaerobic and aerobic microorganisms	Anaerobic and aerobic microorganisms
Detection time interval	5-360 minutes configurable	5-360 minutes configurable
OD600 range	0-5	0-5
Measurement band	600nm	600nm
Temperature control range	4-45℃	4-45℃
Speed range	50-250rpm	50-250rpm
Culture volume	2ml-10ml	400μL-4ml
Cultivation time	1600 hours	1600 hours
Permission Management	User and administrator permissions	User and administrator permissions

Bacteria Dispersion Counter

The Ultrasonic Bacterial Dispersion Counter is a bacterial pretreatment instrument based on ultrasonic dispersion and photoelectric turbidity detection. Compared to traditional manual dispersion methods, this instrument offers faster and better integration of colony dispersion and turbidity detection. It also intelligently indicates the required dilution volume to a standard McFadden turbidity bacterial suspension.



Ultrasonic Bacteria Dispersion Counter SCIENTZ-CF

The SCIENTZ-CF Ultrasonic Bacterial Dispersion Counter is a bacterial solution pretreatment instrument based on ultrasonic dispersion and photoelectric turbidity detection. Compared to traditional manual dispersion methods, this instrument offers faster and more efficient integration of colony dispersion and turbidity detection, while intelligently indicating the dilution volume required to achieve the target McFarland turbidity. It features an ultrasonic transducer power of less than 100W and a transducer frequency of 40kHz. Its McFarland turbidity display accuracy is 0.01 MCF, with a measurement range of 0.00 to 6.00 MCF and a linear range of 0.20 to 4.00 MCF.

The Ultrasonic Bacterial Dispersion Counter is a bacterial solution pretreatment instrument based on ultrasonic dispersion and photoelectric turbidity detection. Compared to traditional manual dispersion methods, this instrument integrates colony dispersion and turbidity detection faster and more effectively, while intelligently indicating the dilution volume required to achieve the target McFadden turbidity bacterial suspension. This highly efficient, hands-free instrument, while maintaining strain viability and antimicrobial susceptibility testing results, offers high application value in microbial laboratory pretreatment.

Application Areas

Water treatment, solid-liquid dispersion, deagglomeration experiments of particles in solution

Preparation of bacterial suspension for drug sensitivity testing of mycobacteria, enterobacteria, staphylococci and other microorganisms

Biological product development and bacterial culture dispersion and turbidity detection experiments

Food microbial limit testing and other testing experiments

model	SCIENTZ-CF		
Ultrasonic transducer power	<100W	McFarland turbidity calibration	Multi-point calibration, up to 6 points
Ultrasonic transducer frequency	40kHz	Dilution function	Automatically generate dosing volume
Total number of ultrasounds	0～99 times can be set	Cuvette Features	Fluorosilicone sealing gasket to prevent leakage
Ultrasound working hours	0～99 seconds can be set	Storage temperature conditions	-20℃ ～50℃
Ultrasound intermission time	0～99 seconds can be set	Operating temperature conditions	5～35℃
McFadden turbidity display accuracy	0.01MCF	Power supply parameters	220V/50HZ
McFadden turbidity measurement range	0.00～6.00MCF	Maximum power consumption	100W
Linear range of McFadden turbidity detection	0.20～4.00MCF	Net weight of the instrument	3.9kg
Cuvette sample capacity	1.5～4ML	Dimensions	L270mm* W292mm* H156mm

Nucleic Acid Extractors

Automatic Nucleic Acid Extractor NP-1096

The NP-1096 is a fully automated nucleic acid extraction instrument, based on the NP-2032, offering comprehensive upgrades in throughput and performance. It can process up to 96 samples at a time, meeting the needs of processing large sample volumes. Leveraging its high-throughput processing modules and rapid, high-quality reagent kits, it provides customers with efficient, automated, and high-quality nucleic acid purification solutions, making it an ideal device for large-scale clinical genetic analysis. Utilizing the magnetic rod method, it boasts a 96/24 throughput, a processing time of 20-40 minutes, a working volume of 20-1000uL/100-5000uL, a permanent magnetic column greater than 4800GS, and a color touchscreen interface.

model	**NP-1096**
principle	Magnetic rod method
flux	96 flux/24 flux
Processing time	20-40 minutes
Working volume	20-1000uL/100-5000uL
Permanent magnet	>4800GS
store	>100 groups (12 built-in programs)
Magnetic bead recovery rate	>99%
Operation interface	Color touch screen
language	Chinese operating system
UV irradiation	have
size	76cm*48cm*57cm

weight	59kg
Program Management	Open management

Fully automatic nucleic acid extractor NP-2032

The NP-2032 is a fully automated nucleic acid extraction instrument developed to meet the needs of large-scale clinical genetic analysis. It utilizes magnetic bead separation technology to isolate and purify nucleic acids from a variety of sample sources (such as blood, animal and plant tissues, and cells), depending on the selected reagent kit. It offers a sample throughput of 1-32, a processing volume of 30-1000 µl, 32 magnetic rods, and a well-to-well variability of less than 3%. It utilizes a 96-well plate with a magnetic rod holder, a lysis temperature of 20-120°C, and an elution temperature of 20-120°C.

model	**NP-2032**
Sample throughput	1~32
Processing volume	30-1000ul
Magnetic bead recovery rate	>98%
Number of magnetic bars	32
Purification well difference	CV less than 3%
Using consumables	96 deep well plate + magnetic rod set
Cracking temperature	20-120℃
Elution temperature	20-120℃

size	422x422x470(mm)
Shake and mix	A mix of approaches for different needs
Operation interface	7-inch touch screen, 8 shortcut program files
Internal procedures	8 preset programs, 500 programs can be stored
Program Management	Create, edit, delete, save as, etc.
Instrument expansion interface	Standard USB
Lighting system	have
Sterilization and disinfection	UV disinfection
Exhaust method	fan
Data Storage	Storage, built-in SD card

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