

| Accurate | Fast | sensitive |

The Display of Technical Arts

The ISO 9001: 2008 international quality certification system is adopted by our company



BIO 3000

Comprehensive Toxicity Analyzer of Water Quality

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Test data in this manual, if not noted, is our company's test data.

All information in this manual is for reference only, which is subject to any change without notice.

Version number: TRVB 160826 B35

140 countries & regions are using Skyray Instrument up to now

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Comprehensive Toxicity Analyzer of Water Quality



Introduction

BIO-3000 Comprehensive Toxicity Analyzer of Water Quality is an instrument to quickly test the toxicity of water bodies outdoors, which adopts luminous bacteria method in accordance with national standard (GB/T15441 1995) and ISO (ISO 11348-3). This method is simple, quick, sensitive and can test the comprehensive bio-toxicity of many materials, which can be widely applied to environmental pollution, emergency episode, security check, normal inspection and analytical investigation.

Standard features

- Safety box
- Charger
- Freeze-dried powder of luminous bacteria
- Portable low temperature incubator
- Analysis main engine
- Pipettor
- Test tube of sample

Product parameters

- Environmental temperature: 5~40°C
- Quickest testing time: 5min
- Measurable spectrum range: 320~1100nm
- Size: 90 × 220 × 40mm
- Environment humidity: 10%~90% (25°C)
- Continuous working hours: more than 12 hours
- Weight: 450g
- Mains input: 220V ± 10%, 50Hz

Performance index

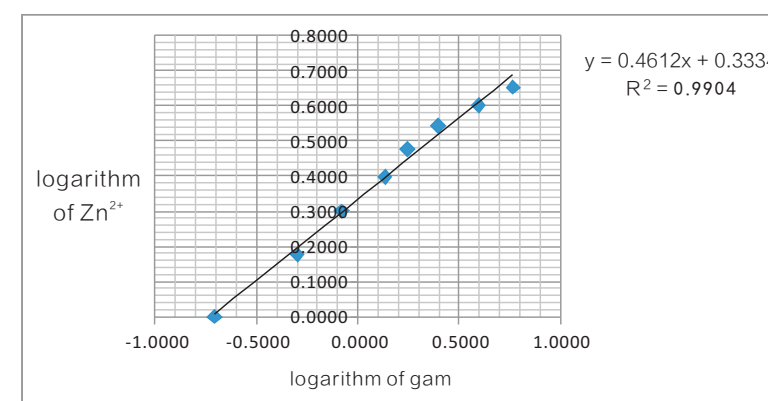
Measurements: toxicity, ATP;
 Communication interfaces: USB, bluetooth, WIFI;
 Software platform: Android, smart operational program that leads customers finish operation easily;
 Screening scope: 0~100% inhibition ratio (10~90% linear inhibition);
 Testing range: 0~65535RLU;
 Data storage: storage space: 4GB (scalable), data storage of over 100000 arrays
 Applicable bacteria: vibrio qinghaiensis, photobacterium phosphoreum (in accordance with GB/T15441 1995) or vibrio fischeri (in accordance with ISO 11348-3);
 Storage temperature of bacteria: -18°C, within one year;
 Dustproofing and waterproofing grade of IP65 is adaptable to severe environment;
 Testing of toxicity varieties: over 5,000 varieties;

Performance advantages

In accordance with national standard (GB/T15441 1995) and (ISO 11348-3);
 Wide testing range and sensitive to many metals and chemical substances like organic matter;
 Compatible with ATP, multifunctional
 Exquisite, portable and convenient
 Huge HD display screen makes more convenient
 Professional APP, simple
 Many interfaces such as bluetooth, USB and WIFI, makes easy data reading
 Pollution map function for quick positioning polluted site
 Huge electric quantity, easy for charge

Performance advantages

NO.	Zn ²⁺ (mg/L)	Inhibition rate	gam	logarithm of gam	logarithm of Zn ²⁺
1	0.5	3%	0.0305	-1.5159	-0.3010
2	1	16%	0.1960	-0.7078	0.0000
3	1.5	33%	0.5034	-0.2981	0.1761
4	2	45%	0.8307	-0.0805	0.3010
5	2.5	58%	1.3572	0.1326	0.3979
6	3	64%	1.7575	0.2449	0.4771
7	3.5	71%	2.4922	0.3966	0.5441
8	4	80%	3.9411	0.5956	0.6021
9	4.5	85%	5.8407	0.7665	0.6532



NOTE :Calculated with reference to ISO 11348-3



- Environmental monitoring department and centers for disease control and prevention
- Experimental study on bio-toxicity in universities
- Monitoring on surface water, drinking water and the source of drinking water
- Anti-terrorism and security assurance on big public events
- Quick screening and toxicity monitoring on sources of pollution from turnover water of sewage treatment works, food processing water, percolate of landfill and industry cooling water