

HANDBOOK OF ANALYTICAL INSTRUMENT



Product

SUPPLIER FOR KEY SPARE PARTS
PROFESSIONAL INSTRUMENTS
SCIENCE AND TECHNOLOGY

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COMPANY PROFILE

BIKAI Science & Technology Co., Ltd., a professional technology company as headquarters and R&D center located in Tokyo, Japan, as well as two separately operation centers in Dubai, UAE and Beijing, China, those 2 operation centers are responsible for global sales and technology marketings, sales & promotions.

BIKAI had established well a processing and manufacturing center in Shenyang, China, which is responsible for the trial production and testing of products.

By focusing on the analysis and detection technology on related instruments & equipments and corresponding spares like the light sources (Deuterium lamp, Element lamp, PID lamp, ultraviolet lamp) and supporting products, even to sensors applied to gas detection.

BIKAI has a number of products owned independent intellectual property rights, which are widely used in pharmaceutical, chemical, environmental protection, safety testing and other fields. Provide excellent products and perfect technical support for partners in different countries and regions.



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Deuterium lamp and power supply

- ◆ The principle mainly depends on plasma discharge, which means that the deuterium lamp is always in a stable deuterium element (D₂ or heavy hydrogen) arc state.
- ◆ Deuterium lamp emits a continuous spectral range of 180–400nm in ultraviolet band. Because of its stable energy output, deuterium lamp can become a light source of high-precision analysis and measuring instrument. Therefore, deuterium lamps are often used for:
 1. High pressure liquid chromatograph (HPLC- detector)
 2. Thin layer chromatography
 3. High-precision capillary electrophoresis instrument (HPCE)
 4. Atomic Absorption Spectrometer (AAS)
 5. Ultraviolet spectrophotometer (UV-VIS)
 6. Environmental monitoring equipment
 7. Film thickness measurement
 8. Semiconductor inspection
- ◆ The stability of deuterium lamp is not only related to the quality of materials and power supply, but also affected by the manufacturing process of the lamp itself. The range of light wave emitted by deuterium lamp is 180–400nm, in which the range of 190–360nm is often used. In the spectrum band emitted by deuterium lamp, there are three characteristic spectral lines at 486.0–583.0–656.1 nm, which are often used to calibrate the theoretical wavelength of instruments. Generally, the measured energy spectrum distribution of deuterium lamp is related to the old and new deuterium lamp, the photomultiplier tube of the instrument, the shining wavelength of the grating, the reflectivity of the optical system and other factors.
- ◆ The glass shell of deuterium lamp sold by our company is mainly made of UV- transparent glass, which has the advantages of high output band (< 250nm) and the material has the characteristics of transmitting wavelengths from 190nm to 400nm, and the material library does not produce ozone. The wavelength below 190nm not only ensures the stability of energy, but also prevents the generation of ozone, and also protects the safety of people and equipment to the maximum extent.
- ◆ In the use of deuterium lamp, it should be noted that:
 1. You can't directly touch the deuterium lamp by hand, because the surface temperature of deuterium lamp is higher than 200°C when it works. Oil stains on the deuterium lamp shell will be permanently sintered on the surface of deuterium lamp, which will seriously affect the emission intensity and service life of deuterium lamp.
 2. The radiation of deuterium lamp can't irradiate the skin for a long time, especially the eyes directly, so as to avoid the eyes from being burned.
 3. The service life of deuterium lamp is also related to the quality of power supply.
 4. Deuterium lamps that have not been used for a long time should be lit regularly for 30 minutes before being placed in a dry place.

BIKAI Science & Technology Co., Ltd.

Analytical Instrument Light Source And Consumables



2489/2998(201000281/201000273)
Part No: BK82020281/BK82020273



996/2996(Wat052586)
Part No: BK82022996



2489 POWER SUPPLY HB LAMP
Part No: 700002785



484(Wat080357)
Part No: BK82110484



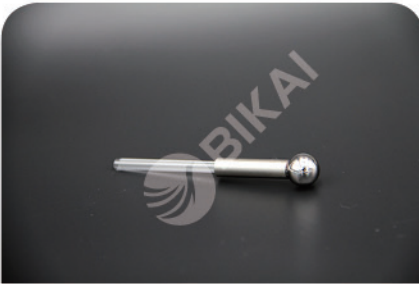
2487(Was081142)
Part No: BK82112487



ELSD (279000562)
Part No: BK279000562



PerfrmancePLUS Check Valve
Cartridge 2695 (700000254)
Part No: 110000254



PerformancePLUS alliance Plunger
Assembly 2695 (wat270959)
Part No: BK60270959

Analytical Instrument Light Source And Consumables



1100/1200/1220/1260DAD
(2140-0820/2140-0813)
Part No: BK82220820



1290(5190-0917)
Part No: BK82220917



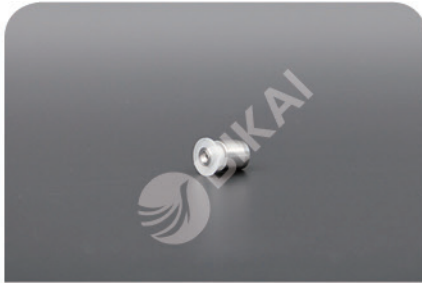
1100/1200/1260VWD
(G1314-60100/G1314-60101)
Part No: BK82010100



Sapphire plunger rod 1220/1260/1290
(5067-4695)
Part No: BK50674695



Active inlet valve core
(5062-8562 400 Bar)
Part No: 1150628562



Active inlet valve core
(G1312-60020 600Bar)
Part No: 11131260020

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SPD-10A/20A/15C(228-34016-02)
Part No: BK82000010



LC-2010(228-37401-91)
Part No: BK82002010



LC- 2030/2040 (228-63621/228-63621-01)
Part No: BK82002030/BK82002040



M40/LC-2050 (228- 63621-02)
Part No: BK82002050



M30A(228-54515)
Part No: BK82054515



LC-40(228-73407)
Part No: BK82073407



UV- 3700/3600/2700/2600/2550/2450/
1700/1800/1240/1280(062-65055-05)
Part No: L6380



Xenon lamp
Part No: BK8120000(*)

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UltiMate 3000VWD(6074.1110)
Part No: BK82226999



Vanquish VWD/DAD(6077.1110/6083.1111)
Part No: BK60771110/BK60831111



ICE 3500(9423-420-30004)
Part No: BK82024204



Vanquish VH-D1(6083.1110)
Part No: BK60831110



3000VWD(6074.2000/6083.2000)
Part No: BKWL6074



EV300 QUIET XENON LAMP UPGRADE S
Part No: BK81200300



DR5000/6000 ALL(A23792)
Part No: BK82205000



DR5000/DR6000 ALL (A23778)
Part No: BK43023778

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LC- VWD (890- 2430/892- 2550)
Part No: BK81022430



primaide VWD
(2J1-1500/891-2733/239-0354)
Part No: BK81021500



primaide DAD (2J1-1500/893-4755)
Part No: BK82224755



Tungsten lamp WL (885-1200)
Part No: 43235005



Xenon lamp
Part No: BK8120000(*)



970B/975B, 1570/1575, 2070/2075 (5330-0091B)
Part No: BK82000091



970A/975A (5330-0092)
Part No: BK82000092

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MDQ Series/PA 800/PA 800 plus (144- 667)
Part No: BK82220251



DU730
Part No: BK82205000



CE 8800 (5065163)
Part No: BK85065163



CE-SDS Gel Buffer (A30341)
Part No: A14303



10kDa Internal Standard (A26487)
Part No: A78462



UNIVERSAL VIAL CAPS (A62250)
Part No: A05226



VIAL COMMON MOLDED (A62251)
Part No: A15226



PCR VIALS (144709)
Part No: N8010533

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EA5000
Part No: 11-0402-001-21



SPECORD PLUS
Part No: 820-60274-C



SPECORD 2xx (PLUS)/ 50 (PLUS)/ 40/30,
SPECORD S 600, S 100, SPEKOL 1200
Part No: 820-60021-0



SPECORD50/200/210/250 PLUS
Part No: 820-60267-P



AAS (10-405-502)
Part No: BK80405502



iCE3proteinsimple CIEF(102-235)
Part No: BK82012235



Maurice
Part No: L10671D



Maurice Power Supply
Part No: L10671P

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Series 200 UV/vis (N2900484)
Part No: BK81020616



Lambda Series (L6022728)
Part No: L6022728



Series 200 UV/vis (B0114620)
Part No: B0114620



365 Series N4101036
Part No: BK82221036



365 Series N4101037
Part No: BK82221037



UV1800/1900
Part No: L6302-40



T9
Part No: L6301-50



T6
Part No: L6312-53

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Analytical Instrument Light Source And Consumables



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Part No: L6565-57



Part No: OPLA-I20



Part No: BK82023000



LCUV-100
Part No: BK82010110



Element lamp
Part No: L2433-series



Pen-Ray mercury lamp
Part No: BK3000-series

Scintillation xenon lamp



module 5W
ALL
Part No: BK50013650



module 2W
ALL
Part No: BK50013651

Light source



PKS106/PKR106
PKR106-6-14