

-40°C Freezer



Technical Parameters

| Model | | BDF-40H100 | BDF-40H200 | BDF-40H300 | BDF-40H485 |
|-------------------------|-------------------|---|---------------------|---------------|---------------|
| External Size(L*W*H) mm | | 680*580*935 | 1160*765*885 | 1530*765*885 | 1655*755*915 |
| Capacity | | 105L | 200L | 300L | 485L |
| Temperature Range | | -10℃~-40℃ | | | -20℃~-40℃ |
| Temperature Accuracy | | 0.1℃ | | | |
| Control System | | Microprocessor Control, LED Display | | | |
| Alarm | | BDF-40H100&BDF-40H485: High or low temperature alarm, sensor failure alarm, Power failure alarm, Temperature controller failure alarm BDF-40H200&BDF-40H300: High temperature alarm, sensor failure alarm | | | |
| Refrigeration Type | | Direct Refrigeration | | | |
| Refrigerant | | R290 | Mixture Refrigerant | | R290 |
| Evaporator | | Material of Copper | | | |
| Construction | Structure | Unibody Design & Mono-assembly foaming (Rigid polyurethane insulation material) | | | |
| | Internal material | 304 Stainless Steel | | | |
| | External material | Cold-rolled steel coated with anti-bacteria powder | | | |
| Baskets | | \ | | | |
| Consumption | | 160W | 380W | 460W | 295W |
| Power Supply | | AC220V±10%, 50/60Hz; 110V±10%, 60Hz | | | |
| Package Size(L*W*H) mm | | 750*700*1040 | 1230*835*1055 | 1600*835*1055 | 1295X842X1070 |
| Gross Weight | | 65kg | 143kg | 170kg | 85kg |

-60°C Freezer



Safety system

1. Perfect alarm system with buzzer sound and lamp flashing alarm functions
2. High temperature alarm & Temperature sensor failure alarm
3. Multiple-protection function (Password protection, power-on delay, time between stops, refrigeration system operation protection during sensor failure)

Technical Parameters

| Model | BDF-60H58 | BDF-60H118A | BDF-60H218 | BDF-60H318 | BDF-60H458 |
|--------------------------|--|--|---------------|---------------|---------------|
| External Size(W*D*H) mm | 670*765*905 | 900*750*945 | 1160*765*885 | 1530*760*880 | 2115*895*1095 |
| Internal Size(W*D*H) mm | 470*470*300 | 696*470*385 | 960*470*595 | 1330*470*595 | 1380*500*660 |
| Capacity | 60L | 118L | 220L | 320L | 458L |
| Temp. Range | -25℃~-60℃, adjustable | | | | |
| Temp. Accuracy | 0.1℃ | | | | |
| Control System & Display | Microprocessor control, LED display | | | | |
| Audio & Visual Alarm | High temperature alarm & Temperature sensor failure alarm | | | | |
| Refrigeration Type | Optimized auto-cascade refrigerating system | | | | |
| Refrigerant | Unique fluoride-free mixed refrigerant, CFC-Free | | | | |
| Condenser & Evaporator | Optimized evaporation and condensation system, strong cooling and low energy consumption | | | | |
| Construction | structure | 100mm(150mm only for BDF-60H458; 130mm only for BDF-60H58) ultra-thick foam layer, dual-sealing design of door, for effective temperature protection | | | |
| | Internal Material | 304 stainless steel | | | |
| | External Material | Cold-rolled steel with anti-bacteria powder coating | | | |
| Consumption | 330W | 340W | 400W | 480W | 520W |
| Power Supply | AC110V/220V±10%,50/60Hz | | | | |
| Package Size(W*D*H) mm | 740*835*1075 | 1020*830*1075 | 1230*835*1055 | 1600*835*1055 | 2185*965*1260 |
| Gross Weight | 101kg | 128kg | 143kg | 170kg | 255kg |



Class II A2 Biological Safety Cabinet



LCD Display

Large Digital LCD display is easy to monitor all the safety parameters at a glance and ergonomically sized control panel improves user interface.



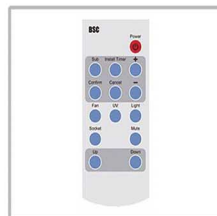
Work Zone

Work zone is made of 304 stainless steel, is surrounded by negative pressure.



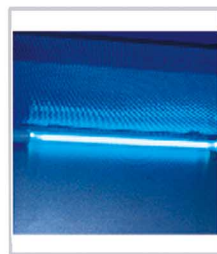
Waterproof Socket

2 waterproof sockets are located in the side panel, for optimum convenience of using small devices inside the cabinet.



Remote Control

All functions can be realized with it, making the operation much easier and convenient.



UV Lamp

Emission of 253.7 nanometers for most efficient decontamination.

ADVANTAGE

1. Small dimension, save space.
2. Centrifugal fan, speed adjustable; H14 HEPA filter.
3. Motorized front window: The front window is motorized for convenient, one-hand operation.
4. Audio and visual alarm: Abnormal airflow velocity, Filter replacement, Front window at unsafe height, High filter pressure alarm.
5. Time reserve function: This can save 30 minutes waiting time after activating the cabinet and the sterilization time after experiment.
6. Remote control: Each function can be realized 6 meters away from the cabinet by remote control, which can protect the operator under emergency.
7. Large LCD display: Operators can check detailed status of the cabinet, such as inflow and downflow velocity, work area temperature and humidity, filter pressure, UV working time and filter working time, filter life indicator etc.
8. With memory function in case of power-failure.
9. Interlock function: UV lamp and front window; UV lamp and blower, LED lamp; blower and front window.

TECHNICAL PARAMETERS

| Model | BSC-700IIA2-Z / 11231 BBC 86 |
|---------------------------------|---|
| External Size(W*D*H) | 700*650*1230mm |
| Internal Size(W*D*H) | 600*500*540mm |
| Tested Opening | Safety height 200mm(8") |
| Max Opening | 370mm(15") |
| Inflow Velocity | 0.53±0.025m/s |
| Down Flow Velocity | 0.33±0.025m/s |
| HEPA Filter | Two, 99.995% efficiency at 0.3µm. Filter life indicator |
| Front Window | Motorized. Single Layer toughened glass≥5mm. Anti UV. |
| Noise | EN12469 ≤ 58dB / NSF49 ≤ 61dB |
| UV Lamp | 15W*1 UV timer, UV life indicator, emission of 253.7 nanometers for most efficient decontamination |
| LED Lamp | 8W*2 |
| Illumination | ≥1000Lux |
| Consumption | 500W |
| Socket | Two, total load of two sockets: 500W |
| Display | LCD display |
| Control System | Microprocessor |
| Airflow System | 70% air recirculation, 30% air exhaust |
| Visual and Audio Alarm | Filter replacement, window over height, abnormal air flow velocity; High filter pressure alarm. |
| Material | Work Zone: 304 stainless steel. Main Body: Cold-rolled steel with anti-bacteria powder coating |
| Work Surface Height | 750mm with optional base stand |
| Power Supply | AC220V±10%, 50/60Hz; 110V±10%, 60Hz |
| Standard Accessory | LED lamp, UV lamp*2, Remote control, Waterproof sockets*2 |
| Optional Accessory | Base stand, Universal caster with brake and leveling feet, SS Water tap*1, SS Gas tap*1 |
| Gross Weight without Base Stand | Carton:100kg |
| Gross Weight with Base Stand | Carton:120kg |
| Package Size(W*D*H) | Carton body 760*800*1400mm |
| | Carton body with base 800*900*1450mm |

BP Series Electronic Precision Balance

Functions:

- * Multiple functions including auto-counting, unit conversion (metric carat, gold ounce, etc.), stability, full-scale faring, zero-memory, etc.
- * Built-in RS232C output interface for computer and printer.

Power Supply: AC220V±10%, 50/60Hz; 110V±10%, 50/60Hz, Power Cord, no battery.



Technical Parameters:

| Model | Capacity | Readability | Scale Size | N.W. | External Size | Package Size | | | | |
|---------|----------|-------------|------------|------|---------------|--------------|--|--|--|--|
| BP12002 | 0~1200g | 10mg | Φ160mm | 6kg | 350*215*115mm | 480*375*515 | | | | |
| BP21002 | 0~2100g | | | | | | | | | |
| BP31002 | 0~3100g | | | | | | | | | |
| BP50002 | 0~5000g | | | | | | | | | |
| BP21001 | 0~2100g | 100mg | | | | | | | | |
| BP31001 | 0~3100g | | | | | | | | | |
| BP41001 | 0~4100g | | | | | | | | | |
| BP51001 | 0~5100g | | | | | | | | | |
| BP61001 | 0~6100g | | | | | | | | | |

Standard Accessory:

Balance body, adapter, cleaning cloth.

BE Series Electronic Balance

Features:

- * AC/DC exchangeable, balance level, LCD display, rapid weighing response and high stability.
- * Sensor adopts unique locking device, which guarantees protection of balance during transportation.



Scale Size: Φ125mm

Scale Size: 130*130mm

Scale Size: 160*160mm

Scale Size: 255*190mm

Functions:

- * System operations: including auto-counting, percentage, automatic calibration, multi-point calibration, standard weights (optional)
- * Multiple functions guarantee easy and reliable operation, including unit conversion (metric carat, gold ounce, etc.), stability, memory, full-scale faring.
- * Built-in RS232C output interface guarantees direct connection to external equipment such as computer and printer.

Power Supply: AC110/220V±10%, 50/60Hz; Capacity <10kg: Power cord, dry battery reservation position (5#*6pcs), no battery; Capacity ≥10kg: Power cord, accumulator.

Technical Parameters:

| Model | Capacity | Readability | Scale Size | N.W. | External Size | Package Size | | | | |
|----------|----------|-------------|------------|---------------|---------------|---------------|-----------|-------|--------------|---------------|
| BE1002 | 0~100g | 10mg | Φ125mm | 1kg | 250*180*60mm | 365*265*170mm | | | | |
| BE2002 | 0~200g | | | | | | | | | |
| BE3002 | 0~300g | | | | | | | | | |
| BE4002 | 0~400g | | | | | | | | | |
| BE5002 | 0~500g | | | | | | | | | |
| BE6002 | 0~600g | | | | | | | | | |
| BE10002 | 0~1000g | | 130*130mm | | | | | | | |
| BE20002 | 0~2000g | | | | | | | | | |
| BE30002 | 0~3000g | | | | | | | | | |
| BE50002 | 0~5000g | | | | | | | | | |
| BE2001 | 0~200g | Φ125mm | | | | | | | | |
| BE4001 | 0~400g | | | | | | | | | |
| BE5001 | 0~500g | | | | | | | | | |
| BE6001 | 0~600g | | | | | | | | | |
| BE8001 | 0~800g | | | | | | | | | |
| BE10001 | 0~1000g | 130*130mm | | | | | | | | |
| BE16001 | 0~1600g | | | | | | | | | |
| BE20001 | 0~2000g | | | | | | | | | |
| BE30001 | 0~3000g | | | | | | | | | |
| BE40001 | 0~4000g | | | | | | | | | |
| BE50001 | 0~5000g | 160*160mm | 1.3kg | | | | | | | |
| BE60001 | 0~6000g | | | | | | | | | |
| BE80001 | 0~8000g | | | | | | | | | |
| BE100001 | 0~10000g | | | | | | | | | |
| BE150001 | 0~15000g | | | | | | | | | |
| BE200001 | 0~20000g | 255*190mm | 3.2kg | 300*120*160mm | 356*310*165mm | | | | | |
| BE300001 | 0~30000g | | | | | | | | | |
| BE1000 | 0~1000g | | | | | 1g | 130*130mm | 1kg | 250*180*60mm | 365*265*170mm |
| BE2000 | 0~2000g | | | | | | | | | |
| BE3000 | 0~3000g | | | | | | 160*160mm | 1.3kg | | |
| BE6000 | 0~6000g | | | | | | | | | |
| BE10000 | 0~10000g | 255*190mm | 3.2kg | 300*120*160mm | 356*310*165mm | | | | | |
| BE15000 | 0~15000g | | | | | | | | | |
| BE20000 | 0~20000g | | | | | | | | | |
| BE30000 | 0~30000g | | | | | | | | | |

Single Speed Mini Centrifuge



Application:

The mini centrifuge is used for serum extraction from whole blood, supernate extraction from different samples, micro blood cell separation, bio-sample treatment, samples quick sedimentation and PCR sample treatment.

Features:

- * Rotor with 8 position & rotor for PCR strip tube
- * Unique rotor clip design, easy to install and replace
- * Long life, reliable motor, low noise, stable running
- * Humanization design, switch control for cover
- * Unibody casing looks wonderful



Technical Parameters:

| Model | Mini-7 | Mini-5 |
|---------------|--|----------|
| Max Speed | 7000 rpm | 5000 rpm |
| Max RCF | 2650×g | 1350×g |
| Capacity | 0.2/0.5/1.5/2.0ml×8; 8×4×0.2ml (PCR tube) | |
| Rotor | 8×2/1.5ml rotor (0.2ml and 0.5ml adaptor) 8×4×0.2ml PCR tube | |
| Power | 110VAC 60Hz; 220VAC 50/60Hz | |
| Consumption | 20W | |
| Noise | 45dB(A) | |
| External Size | 178×178×115mm | |
| Package Size | 320×250×210 mm | |
| Net Weight | 1kg | |
| Gross Weight | 2kg | |

Mini High Speed Centrifuge



Features:

- * Speed up to 15000rpm (15100×g)
- * Brushless DC motor drive quickly to the target speed
- * Quiet working, Low noise ≤54dB
- * Cast iron chassis, low center of gravity, vacuum suction cup feet, double safety guarantee.
- * Wide voltage design, the speed is not affected by voltage fluctuations, and the speed accuracy is high.

Technical Parameters:

| Model | D2012 plus |
|---------------------------|--|
| Max. Speed | 15000rpm(500-1500rpm)increment:100rpm |
| Max. RCF | 15100×g, increment: 100×g |
| Speed Accuracy | ±20rpm |
| Rotor Capacity | 0.2mL/0.5mL/1.5mL/2mL*12 |
| Run Time | 30sec-99min/Continuous |
| Acceleration/Braking Time | 11s↑/9s↓ |
| Driving Motor | Brushless DC motor |
| Safety Devices | Door interlock; Over-speed detection; Over-temperature detection; Automatic internal diagnosis |
| Power | Single-phase, AC100V-240V; 50Hz/60Hz, 3A; 100W |
| Noise Level | ≤54dB |
| Dimension (D*W*H) | 255*245*140mm |
| Package Size (D*W*H) | 455*345*250mm |
| Gross Weight | 6.54kg |
| Other Functions | Speed/RCF switch; Short-time run function; Sound-alert function; Running process display |

Standard Outfit:

Adapted Rotor

| Model | A12-2P(19400010) |
|-----------------------|----------------------------------|
| Max.Speed | 1500rpm |
| Max.RCF | 15100xg |
| Rotor Capacity | 2ml/1.5mlx12, 0.2mlx12, 0.5mlx12 |
| Rotor Material | High strength plastic |
| Adapted Rotor Adapter | A02P2,A05P2 |

Accessories:

Adapted Adapter

| Model | A02P2(19500001) | A05P2(19500002) |
|--------------|--|--|
| Descriptions | 0.2ml rotor adapter for A12-2,A12-2P, AS24-2 andA24-2P rotors,24pcs/pk | 0.5ml rotor adapter for A12-2,A12-2P, AS24-2 andA24-2P rotors,24pcs/pk |

Table Top High Speed Refrigerated Centrifuge

Features:

- * Maintenance-free brushless motor.
- * Unbalance, over-speed, over-heat protection.
- * LCD display.
- * With motor gate lock mute mechanical & electrical integration.
- * Provide more than 100 kinds of operating models.
- * 10 levels for speed-up and speed-down control.



Technical Parameters:

| Model | BKC-TH16R | BKC-TH20R |
|-------------------------|---------------------|-----------|
| Max. Capacity | 4*100ml | |
| Max. Speed | 16800rpm | 20800rpm |
| Max. RCF | 19600xg | 30000xg |
| Speed Precision | ±50rpm | |
| Temp range | -20~40℃ | |
| Temp accuracy | ±1℃ | |
| Timing | 0~99h59min | |
| Noise | ≤65dB | |
| Power supply | AC110/220V, 50/60Hz | |
| Power consumption | 1.5KW | |
| External size(W*D*H) mm | 710*630*350 | |
| Packing size(W*D*H) mm | 850*730*570 | |
| Net weight(kg) | 75 | |
| Gross weight(kg) | 107 | |

Rotor:

| Model | BKC-TH16R | | | BKC-TH20R | | |
|-------------|------------|--------|--------------|------------|--------|--------------|
| | Speed(rpm) | RF(xg) | Capacity | Speed(rpm) | RF(xg) | Capacity |
| Angle Rotor | 16800 | 19600 | 12*1.5/2.0ml | 20800 | 30000 | 12*1.5/2.0ml |
| | 14000 | 18180 | 24*1.5/2.0ml | 14000 | 18180 | 24*1.5/2.0ml |
| | 14000 | 13600 | 18*1.5ml | 16000 | 17700 | 18*1.5ml |
| | 11000 | 12900 | 30*1.5ml | 12000 | 15300 | 30*1.5ml |
| | 12000 | 13800 | 48*0.5ml | 13000 | 16300 | 48*0.5ml |
| | 13000 | 11700 | 10*5ml | 16000 | 17700 | 10*5ml |
| | 12000 | 13400 | 12*10ml | 14000 | 18800 | 12*10ml |
| | 12000 | 14800 | 8*15ml | 12000 | 14800 | 8*15ml |
| | 11000 | 11600 | 6*50ml | 12000 | 13800 | 6*50ml |
| | 9000 | 8500 | 4*100ml | 10000 | 10500 | 4*100ml |
| Microplate | 3000 | 1400 | 2*2*48Well | 3000 | 1400 | 2*2*48Well |
| Swing Rotor | 4000 | 2100 | 4*50ml | 4000 | 2150 | 4*50ml |

Table Top High Speed Refrigerated Centrifuge



Features:

- * LCD display: indicating setting parameters and actual parameters.
- * Brushless motor: high torque and variable frequency.
- * Safety: over-speed and over-temperature protection, imbalance detection, shock absorber to keep motor running smoothly.
- * Stainless steel chamber.
- * Inching function.
- * Mute mechatronics motor door lock.
- * Over 20 selectable procedures, 9 levels speed-up and speed-down control.

Technical Parameters:

| Model | BKC-TH16R | BKC-TH20R |
|-------------------------|---------------------|-----------|
| Max. Capacity | 12*10ml | 6*50ml |
| Max. Speed | 16000rpm | 20000rpm |
| Max. RCF | 18180xg | 27700xg |
| Standard Rotor | 12*1.5/2.0ml | |
| Speed Precision | ±50rpm | |
| Refrigeration System | CFC-free (R404a) | |
| Temp. Range | -20℃~40℃ | |
| Temp. Precision | ±1℃ | |
| Timing Range | 0~99h59min | |
| Noise | <65dB | |
| Consumption | 1.5KW | |
| Power Supply | AC110/220V, 50/60Hz | |
| External Size(W*D*H) mm | 710*630*350 | |
| Package Size(W*D*H) mm | 860*780*550 | |
| Net/Gross Weight(kg) | 73/95 | |

Rotor:

| Model | Capacity | BKC-TH16R | | BKC-TH20R | |
|-------------|--------------|------------|---------|------------|---------|
| | | Speed(rpm) | RCF(xg) | Speed(rpm) | RCF(xg) |
| Angle Rotor | 12*1.5/2.0ml | 16000 | 17800 | 20000 | 27700 |
| | 10*5ml | 13000 | 11700 | 16000 | 17700 |
| | 24*1.5/2.0ml | 14000 | 18180 | 14000 | 18180 |
| | 12*5/10ml | 12000 | 13400 | 12000 | 13400 |
| | 6*50ml | / | / | 12000 | 13800 |
| Microplate | 2*2*48 well | / | / | 3000 | 1400 |

Table Top Low Speed Centrifuge

Features:

- * Brushless motor.
- * Stainless steel chamber.
- * Can store 20 operation procedures.



Technical Parameters:

| Model | BKC-TL5V | BKC-TL5VI | BKC-TL6III | BKC-TL6IV |
|------------------------|----------------------------------|------------------------------------|-------------|-----------|
| Max. Capacity | 12*15ml | 4*750ml | 4*100ml | 4*300ml |
| Max. Speed | 5000rpm | 5500rpm | 6000rpm | |
| Max. RCF | 3031xg | 5400xg | 5037xg | 5400xg |
| Speed Precision | ±10rpm | | ±5rpm | ±10rpm |
| Timing Range | 1s~999min/continuous /short spin | 1~9999min/ continuous / short spin | | |
| Noise | ≤58dB | ≤65dB | ≤62dB | ≤65dB |
| Power Supply | AC110/220V, 50/60Hz | | | |
| External Size(W*D*H)mm | 330*390*325 | 450*575*520 | 425*510*415 | |
| Package Size(W*D*H)mm | 480*415*420 | 680*605*540 | 620*545*530 | |
| Gross Weight(kg) | 30 | 79 | 55 | 65 |

Rotor for BKC-TL5V:

| No. | Rotor | Capacity | Speed(rpm) | RCF(xg) |
|------|-------------|--------------|------------|---------|
| No.1 | Angle Rotor | 12*10ml/15ml | 5000 | 3031 |

Rotor for BKC-TL5VI:

| No. | Rotor | Capacity | Speed(rpm) | RCF(xg) |
|---------------------|---|---------------------------------------|------------|---------|
| No.1 | Swing Rotor | 4*750ml | 4200 | 3648 |
| Adapter | 4*500ml, 4*250ml, 12*100ml, 20*50ml(▲), 28*50ml(●), 56*15ml/20ml(▲), 76*15ml, 96*5ml(vacuum blood collection tube), 148*5ml(immuno tubes) | | | |
| Adapter(Hat device) | 96*5ml(vacuum blood collection tube) | | | |
| No.2 | Cellular Crane Cup | 148*5ml(vacuum blood collection tube) | 4200 | 3648 |
| No.3 | Microplate Rotor | 2*2*96well | 5000 | 3530 |
| No.4 | Angle Rotor | 6*50ml | 5500 | 5400 |

Rotor for BKC-TL6III:

| No. | Rotor | Capacity | Speed(rpm) | RCF(xg) |
|---------|---|--------------|------------|---------|
| No.1 | Swing Rotor | 4*100ml | 5000 | 4500 |
| Adapter | 4*100ml, 4*50ml, 12*10ml/15ml, 16*10ml/15ml | | | |
| No.2 | Swing Rotor | 4*100ml | 4500 | 3645 |
| Adapter | 4*100ml, 8*50ml, 24*10ml/15ml | | | |
| No.3 | Swing Rotor | 8*100ml | 4200 | 3175 |
| Adapter | 8*100ml, 8*50ml, 32*10ml/15ml/5ml(●) | | | |
| No.4 | Cellular Crane Cup | 40*5ml | 4200 | 3175 |
| No.5 | Angle Rotor | 12*10ml/15ml | 6000 | 5037 |
| No.6 | Microplate | 2*96well | 5000 | 3530 |

Rotor for BKC-TL6IV:

| No. | Rotor | Capacity | Speed(rpm) | RCF(xg) |
|-----------------------|--|--------------|------------|---------|
| No.1 | Swing Rotor | 4*300ml | 4500 | 3781 |
| Adapter | 4*250ml, 4*100ml, 12*50ml, 40*10ml/15ml(●), 28*15ml(▲), 56*5ml(vacuum blood collection tube), 76*5ml(immuno tubes) | | | |
| No.2 | Swing Rotor | 4*450ml | 4200 | 3451 |
| Adapter 1 | 4*250ml, 12*100ml, 16*50ml, 56*10ml/15ml(●), 40*10ml/15ml(▲), 96*5ml(immuno tubes), 68*5ml(vacuum blood collection tube) | | | |
| Adapter 2(Hat device) | 68*5ml(vacuum blood collection tube) | | | |
| No.3 | Angle Rotor | 50mlx6 | 5500 | 5400 |
| No.4 | Angle Rotor | 10ml/15ml*12 | 6000 | 5037 |
| No.5 | Microplate | 2*2*96well | 4000 | 2260 |

With mark(●) is round-bottom tube, with mark(▲) is sharp-bottom tube. We can do custom adapter according the user's requirements.

Certificate of Compliance



No. 0P171016.JBBTQ23

Technical Construction File no. TJS201710132133

Certificate's
Holder:

Jinan Biobase Biotech Co., Ltd.
Room 501, Tianqiao District Technology Center,
No. 6 Lanxiang Middle Road, Tianqiao District, Jinan

Certification ECM
Mark:



Product:
Model(s):

Centrifuge
(see the following annex I)

Verification to:

Standard:
EN 61326-1:2013, EN 61000-6-1:2007,
EN 61000-6-3:2007+A1:2011+AC:2012,
EN 61010-1:2010,
EN 60204-1:2006+A1:2009+AC:2010

related to CE Directive(s):
2014/35/EU (Low Voltage)
2014/30/EU (Electromagnetic Compatibility)

Remark: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM, in reference to the above listed Standard(s). The above Compliance Mark can be affixed on the product(s) accordingly to the ECM regulation about its release and its use. The regulation can be found at www.entecerma.it. This Certificate of Compliance can be checked for validity at www.entecerma.it

This verification doesn't imply assessment of the production of the product(s).

Additional information, clarification about the CE Marking:



We attest that a TCF for the **CE** Marking process is in place. Whereas the Manufacturer is Responsible to start the **CE Marking Certification Procedure** and to perform all the necessary activities, as required by the Directive before placing the **CE** Mark on the product(s).

Date of issue 16 October 2017

Expiry date 15 October 2022

Chief Manager
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Annex I

No. 0P171016.JBBTQ23

Technical Construction File no. TJS201710132133



Model(s): Mini-4K, Mini-6K, Mini-7K, Mini-10K, Mini-10K+, Mini-15K, Mini-4610K, Mini-4610KII, Mini-4KH, Mini-6KH, Mini-10KH, LC-HD, LC-4KII, LC-H4KII, LC-4KA, LC-4K-2, LC-5K, LC-4KB, LC-4KC, LC-T4K, LC-H4K, BKC-TL4, BKC-TL4II, BKC-TL4III, BKC-TL4IV, BKC-TL5VII, BKC-TL5III, BKC-TL5IV, BKC-TL5, BKC-TL5II, BKC-TL6, BKC-TL6II, BKC-TL4V, BKC-TL5VI, BKC-TL5V, BKC-TL6III, BKC-TL6IV, BKC-TL6V, BKC-TL5L, BKC-TL5LII, BKC-TL5RIV, BKC-TL6R, BKC-TL8R, BKC-VL5R, BKC-VL6R, BKC-VL8R, BKC-TL5R, BKC-TL5RII, BKC-TL5RIII, BKC-TL5RL, BKC-VL6RLII, BKC-VL6RL, BKC-VL7RL, BKC-VL8RL, BKC-MH16, BKC-TH16, BKC-TH18, BKC-TH16II, BKC-TH18II, BKC-TH21, BKC-TH18R, BKC-TH18RII, BKC-TH23R, BKC-TH16R, BKC-TH20R, BKC-TH16RII, BKC-TH20RII, BKC-TH12R, BKC-TH16RIII, BKC-TH20RIII, BKC-TH24RII, BKC-VH20R, BKC-VH21RII, BKC-TH23RII, BKC-TH24R, BKC-TH24RL, BKC-VH20RII, BKC-VH21RL, BKC-VH10RL, BKC-TH20RL, BKC-TH21RL, BKC-GC12, BKC-GC24, BKC-PCR16, BKC-PRP5, BKC-MF5A, BKC-MF5B, BKC-MF5C, BKC-AU4, BKC-AU5, BKC-AU5R, BKC-BB6, BKC-BB6A, BKC-BB7, BKC-HC12A, BKC-TB12, BKC-TB4K, BKC-OIL5VII



CERTIFICATE

ATTESTATION CERTIFICATE OF MACHINERY AND ELECTROMAGNETIC COMPATIBILITY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been inspected and audit has been completed successfully.

2006/42/EC Machinery Directive 2014/30/EU Electromagnetic Compatibility Directive
and 2014/35/EU Low Voltage Directives have been taken as references for these processes

Company Name : **Jinan Biobase Biotech Co., Ltd.**

Company Address : No.51 South Gongye Road, Jinan, Shandong, China 250101

Related Directives and Annex : **2006/42/EC Machinery Directive**
2014/35/EU Low Voltage Directive
2014/30/EU Electromagnetic Compatibility Directive

Related Standards : **EN ISO 12100:2010, EN 60204-1:2006+A1:2009+AC:2010**
EN 61010-1:2010, EN 61326-1:2013

Product Name : **Low Temperature Freezer**

Report No and Date : TELMJ201810082771

Product Brand/Model/Type : BDF-25H150, BDF-25H200, BDF-25H300, BDF-25H389,
BDF-25H525, BDF-25V259, BDF-25V450, BDF-25V268,
BDF-25V270, BDF-25V328, BDF-40V253, BDF-40V288,
BDF-40V288A, BDF-40V525, BDF-40V450, BDF-40V90,
BDF-40V270, BDF-40V268, BDF-40V328, BDF-40H100,
BDF-40H200, BDF-40H300, BDF-40H390, BDF-40H485,
BDF-60H58, BDF-60H118A, BDF-60H218, BDF-60H318,
BDF-60H458, BDF-86V158, BDF-86V340, BDF-86V936,
BDF-86V100, BDF-86V108, BDF-86V308, BDF-86V528,
BDF-86V540, BDF-86V388, BDF-86V398

Certificate Number : **M.2018.201.N7086**

Initial Assessment Date : 17.10.2018

Registration Date : 18.10.2018

Reissue Date/No : -

Expiry Date : **17.10.2023**

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and Trade Inc. Co.

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Address: Mutlukent Mahallesi 2073 Sokak (Eski 93 Sokak) No:10 Çankaya – Ankara – TURKEY

Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76

E-mail: info@udemltd.com.tr www.udem.com.tr





This is to certify that the Quality Management System of

Biobase Biodustry (Shandong) Co., Ltd.

Unified Social Credit Code : 9137018179889855X7

Operation Address : Biobase Biodustry Park, Crossing of East Jingshi Road and Mingbu Road, Mingshui Economic Development Zone, Zhangqiu, Jinan City, Shandong Province, China(Production); No.51, South Gongye Road, Jinan City, Shandong Province, China(Sale)

Registered Address : Biobase Biodustry Park, Crossing of East Jingshi Road and Mingbu Road, Mingshui Economic Development Zone, Zhangqiu, Jinan City, Shandong Province, China

applicable to

R & D, production and sales of in vitro diagnostic kit(see attachment for details), biosafety cabinet, medical aerosol absorber, pressure steam sterilizer, blood bank refrigerator, microbial incubator and automated ELISA processor(within the scope of license qualification)

has been assessed and registered by NQA against the provisions of

ISO 9001:2015

This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA.

Certified Clients shall accept regular surveillance assessments, the validity of certificates shall be maintained for the positive result of audit.

The information of this certificate can be checked on CNCA's website (www.cnca.gov.cn)
SNQA's website : www.snqa.com.cn

Managing Director



Certificate Number **45013**

Date: 09 July 2018
Valid Until: 09 July 2021
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Biobase Biodustry (Shandong) Co., Ltd.

Annex I

1. Triglyceride detection kit (enzyme colorimetric method)
2. Low density lipoprotein cholesterol test kit (direct method)
3. High-density lipoprotein cholesterol test kit (direct method)
4. Total cholesterol test kit (enzyme colorimetric method)
5. Creatine kinase isoenzyme detection kit (IFCC recommended method)
6. Total bilirubin test kit (dialzo-2,4-dichloroaniline colorimetric method)
7. Alanine aminotransferase detection kit (IFCC recommendation method)
8. Cholinesterase detection kit (butyryl thiocholine method)
9. Glucose detection kit (oxidase method)
10. Chlorine detection kit (mercury thiocyanate colorimetric method)
11. Magnesium detection kit (colorimetric method)
12. Carbon dioxide detection kit (enzymatic method)
13. Inorganic phosphorus detection kit (colorimetric method)
14. Apolipoprotein A1 detection kit (immunotransparency turbidity method)
15. Glucose detection kit (hexose kinase method)
16. Creatinine test kit (enzymatic method)
17. Calcium detection kit (arsenazo III method)
18. Glycosylated serum protein detection kit (two points method)
19. Lipoprotein (a) detection kit (immunotransparency turbidity method)
20. Total protein detection kit (biuret method)
21. Aspartate aminotransferase detection kit (IFCC recommended method)
22. Alkaline phosphatase test kit (IFCC recommended method)
23. Albumin detection kit (bromocresol green method)
24. Apolipoprotein B detection kit (immunotransparency turbidity method)
25. Urea detection kit (urease-glutamate dehydrogenase method)

M. Combs

Managing Director

Certificate Number **45013**

Date: 09 July 2018
Valid Until: 09 July 2021
EAC Code: 13/19



013



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Biobase Biodustry (Shandong) Co., Ltd.

Annex II

26. α -amylase detection kit (EPS-G7 method)
27. α -hydroxybutyrate dehydrogenase detection kit (DGKC recommended method)
28. Rheumatoid factor detection kit (immunotransparency turbidity method)
29. Total bile acid detection kit (circulating enzyme method)
30. γ -glutamyl transferase detection kit (SZASZ method)
31. Lactate dehydrogenase detection kit (DGKC recommended method)
32. Direct bilirubin test kit (diazo-2,4-dichloroaniline colorimetric method)
33. Adenosine deaminase detection kit (enzymatic method)
34. Creatine kinase test kit (IFCC recommended method)
35. Creatinine test kit (bitter acid method)
36. Urine microalbumin detection kit (immunotransparency turbidity method)
37. Uric acid detection kit (TBHBA method)
38. Total cholesterol test kit (oxidase method)
39. Sodium detection kit (enzymatic method)
40. Potassium detection kit (enzymatic method)
41. Serum iron detection kit (pyrazine method)
42. Zinc test kit (colorimetric method)
43. Copper detection kit (colorimetric method)
44. 5'-ribonucleotide hydrolase detection kit (colorimetric method)
45. Monoamine oxidase detection kit (colorimetric method)
46. Alpha-fetoprotein detection kit (immunoturbidimetry)
47. Ammonia detection kit (glutamate dehydrogenase two-point method)
48. Leucine aminopeptidase detection kit (colorimetric method)
49. Cystatin C detection kit (immunoturbidimetry)
50. β 2-microglobulin detection kit (latex enhanced immunoturbidimetry)

M. Combs

Managing Director

Certificate Number **45013**

Date: 09 July 2018
Valid Until: 09 July 2021
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Biobase Biodustry (Shandong) Co., Ltd.

Annex III

51. N-acetyl- β -D-glucosaminidase detection kit (colorimetric method)
52. Triglyceride detection kit (oxidase method)
53. Homocysteine detection kit (enzymatic method)
54. Apolipoprotein E test kit (immunoturbidimetry)
55. Phospholipid test kit (oxidase method)
56. Glucose detection kit (glucose oxidase method)
57. Glycosylated hemoglobin detection kit (enzymatic method)
58. D3 hydroxybutyric acid detection kit (enzymatic method)
59. Lactic acid test kit (enzyme color method)
60. Myoglobin detection kit (immunoturbidimetry)
61. Angiotensin converting enzyme detection kit (colorimetric method)
62. Lactate dehydrogenase isoenzyme 1 detection kit (lactic acid matrix rate method)
63. Lipase detection kit (enzyme coloring method)
64. Pepsinogen I detection kit (immunoturbidimetry)
65. Pepsinogen II detection kit (immunoturbidimetry)
66. Anti-streptococcus O detection kit (immunoturbidimetry)
67. High-sensitivity C-reactive protein detection kit (immunoturbidimetry)
68. Pre-albumin detection kit (immunoturbidimetry)
69. Transferrin detection kit (immunoturbidimetry)
70. Glucose-6-phosphate dehydrogenase detection kit (UV rate method)
71. D-dimer detection kit (immunoturbidimetry)
72. Complement C3 detection kit (immunoturbidimetry)
73. Complement C4 detection kit (immunoturbidimetry)
74. Immunoglobulin IgA detection kit (immunoturbidimetry)
75. Immunoglobulin IgG detection kit (immunoturbidimetry)

M. Combs

Managing Director

Certificate Number **45013**

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EAC Code: 13/19





Biobase Biodustry (Shandong) Co., Ltd.

Annex IV

76. Immunoglobulin IgM detection kit (immunoturbidimetry)
77. α 1-acid glycoprotein detection kit (immunoturbidimetry)
78. α 1-antitrypsin detection kit (immunoturbidimetry)
79. Ethanol detection kit (enzymatic method)
80. Apolipoprotein A2 detection kit (immunoturbidimetry)
81. Apolipoprotein C2 detection kit (immunoturbidimetry)
82. Apolipoprotein C3 detection kit (immunoturbidimetry)
83. Anti-thrombin III detection kit (immunoturbidimetry)
84. B factor detection kit (immunoturbidimetry)
85. C-reactive protein detection kit (immunoturbidimetry)
86. Direct bilirubin detection kit (vanadate oxidation method)
87. Direct bilirubin detection kit (oxidase method)
88. Fibrinogen detection kit (immunoturbidimetry)
89. Ferritin detection kit (latex enhanced immunoturbidimetry)
90. Fiber binding protein detection kit (immunoturbidimetry)
91. Glutamate dehydrogenase detection kit (enzymatic method)
92. Glycyl valine dipeptidyl aminopeptidase detection kit (enzymatic method)
93. Glycosylated hemoglobin detection kit (latex enhanced immunoturbidimetry)
94. Homocysteine detection kit (enzymatic method)
95. Immunoglobulin E detection kit (immunoturbidimetry)
96. Ischemic modified albumin detection kit (colorimetric method)
97. Aspartate aminotransferase mitochondrial isoenzyme detection kit (enzyme inhibition method)
98. Plasminogen detection kit (immunoturbidimetry)
99. Retinol binding protein detection kit (immunoturbidimetry)
100. Total bilirubin test kit (vanadate oxidation method)

M. Combs

Managing Director

Certificate Number **45013**

Date: 09 July 2018
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**Biobase Biodustry (Shandong) Co., Ltd.****Annex V**

101. Total bilirubin test kit (oxidase method)
102. Troponin I test kit (latex enhanced immunoturbidimetry)
103. Unsaturated iron binding force detection kit (Ferene method)
104. Urine total protein detection kit (colorimetric method)
105. α 1-microglobulin test kit (latex enhanced immunoturbidimetry)
106. Fibrin and fibrinogen decomposition product determination kit (latex immunoturbidimetry)
107. Haptoglobin assay kit (immunoturbidimetry)
108. Procalcitonin assay kit (latex immunoturbidimetry)
109. Glycocholic acid assay kit (latex immunoturbidimetry)
110. Free fatty acid determination kit (ACS-PAP method)
111. Glycated albumin assay kit (peroxidase method)
112. α 2 macroglobulin determination kit (immunoturbidimetry)
113. Heart-shaped fatty acid binding protein assay kit (latex immunoturbidimetry)
114. Anti-cyclic citrullinated peptide antibody assay kit (latex immunoturbidimetry)
115. Neutrophil gelatinase-related lipocalin assay kit (latex immunoturbidimetry)
116. Sialic acid assay kit (neuraminidase method)

Managing Director

Certificate Number **45013**

Date: 09 July 2018
Valid Until: 09 July 2021
EAC Code: 13/19





This is to certify that the Quality Management System of

Biobase Biodustry (Shandong) Co., Ltd.

Unified Social Credit Code : 9137018179889855X7

Operation Address : Biobase Biodustry Park, Crossing of East Jingshi Road and Mingbu Road, Mingshui Economic Development Zone, Zhangqiu, Jinan City, Shandong Province, China(Production); No.51, South Gongye Road, Jinan City, Shandong Province, China(Sale)

Registered Address : Biobase Biodustry Park, Crossing of East Jingshi Road and Mingbu Road, Mingshui Economic Development Zone, Zhangqiu, Jinan City, Shandong Province, China

applicable to

R & D, production and sales of in vitro diagnostic kit(see attachment for details), biosafety cabinet, medical aerosol absorber, pressure steam sterilizer, blood bank refrigerator, microbial incubator and automated ELISA processor(within the scope of license qualification)

has been assessed and registered by NQA against the provisions of

ISO 13485: 2016

This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA.

Certified Clients shall accept regular surveillance assessments, the validity of certificates shall be maintained for the positive result of audit.

The information of this certificate can be checked on CNCA's website (www.cnca.gov.cn)
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Managing Director



015

Certificate Number **45014**

Date: 09 July 2018
Valid Until: 09 July 2021
EAC Code: 19





Biobase Biodustry (Shandong) Co., Ltd.

Annex I

1. Triglyceride detection kit (enzyme colorimetric method)
2. Low density lipoprotein cholesterol test kit (direct method)
3. High-density lipoprotein cholesterol test kit (direct method)
4. Total cholesterol test kit (enzyme colorimetric method)
5. Creatine kinase isoenzyme detection kit (IFCC recommended method)
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9. Glucose detection kit (oxidase method)
10. Chlorine detection kit (mercury thiocyanate colorimetric method)
11. Magnesium detection kit (colorimetric method)
12. Carbon dioxide detection kit (enzymatic method)
13. Inorganic phosphorus detection kit (colorimetric method)
14. Apolipoprotein A1 detection kit (immunotransparency turbidity method)
15. Glucose detection kit (hexose kinase method)
16. Creatinine test kit (enzymatic method)
17. Calcium detection kit (arsenazo III method)
18. Glycosylated serum protein detection kit (two points method)
19. Lipoprotein (a) detection kit (immunotransparency turbidity method)
20. Total protein detection kit (biuret method)
21. Aspartate aminotransferase detection kit (IFCC recommended method)
22. Alkaline phosphatase test kit (IFCC recommended method)
23. Albumin detection kit (bromocresol green method)
24. Apolipoprotein B detection kit (immunotransparency turbidity method)
25. Urea detection kit (urease-glutamate dehydrogenase method)

Managing Director



Certificate Number **45014**

Date: 09 July 2018
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Biobase Biodustry (Shandong) Co., Ltd.

Annex II

26. α -amylase detection kit (EPS-G7 method)
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32. Direct bilirubin test kit (diazotization-dichloroaniline colorimetric method)
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46. Alpha-fetoprotein detection kit (immunoturbidimetry)
47. Ammonia detection kit (glutamate dehydrogenase two-point method)
48. Leucine aminopeptidase detection kit (colorimetric method)
49. Cystatin C detection kit (immunoturbidimetry)
50. β 2-microglobulin detection kit (latex enhanced immunoturbidimetry)

M. Combs

Managing Director



Certificate Number **45014**

Date: 09 July 2018
Valid Until: 09 July 2021
EAC Code: 19





Biobase Biodustry (Shandong) Co., Ltd.

Annex III

51. N-acetyl- β -D-glucosaminidase detection kit (colorimetric method)
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74. Immunoglobulin IgA detection kit (immunoturbidimetry)
75. Immunoglobulin IgG detection kit (immunoturbidimetry)

M. Combs

Managing Director



Certificate Number **45014**

Date: 09 July 2018
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Biobase Biodustry (Shandong) Co., Ltd.

Annex IV

76. Immunoglobulin IgM detection kit (immunoturbidimetry)
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Managing Director



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**Biobase Biodustry (Shandong) Co., Ltd.****Annex V**

101. Total bilirubin test kit (oxidase method)
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111. Glycated albumin assay kit (peroxidase method)
112. α 2 macroglobulin determination kit (immunoturbidimetry)
113. Heart-shaped fatty acid binding protein assay kit (latex immunoturbidimetry)
114. Anti-cyclic citrullinated peptide antibody assay kit (latex immunoturbidimetry)
115. Neutrophil gelatinase-related lipocalin assay kit (latex immunoturbidimetry)
116. Sialic acid assay kit (neuraminidase method)

Managing Director

Certificate Number **45014**

| | |
|--------------|--------------|
| Date: | 09 July 2018 |
| Valid Until: | 09 July 2021 |
| EAC Code: | 19 |



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