



**Contents**

|  | Page |
|--|------|
| <b>CO<sub>2</sub> Incubators with or without Touch Screen</b>                      | 4    |
| <b>CO<sub>2</sub> Incubator aniCell™ with integrated orbital shakers</b>           | 6    |
| <b>Incubator with integrated orbital shaker</b>                                    | 6/7  |
| <b>Max Cell™ – large capacity CO<sub>2</sub> incubator</b>                         | 5    |
| <b>MiniCell™ – small portable CO<sub>2</sub> incubator</b>                         | 3    |
| <b>Multi functional work station for general cell culture / stem cell research</b> | 3    |
| <b>Multi and combination shaker</b>  | 9    |
| <b>Orbital shakers with optional separate remote controller</b>                    | 9    |
| <b>Shaker accessories</b>  | 12   |
| <b>Shaking incubators with or without cooling function</b>                         | 8    |
| <b>STEMPIA – SVF isolation kit</b>   | 10   |
| <b>Vacuum evaporator</b>   | 2    |
| <b>Water baths – also with shaking feature</b>                                     | 2    |

## Water Baths, also with shaking feature

### Water bath for general application (NB301)

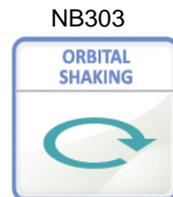
- Temperature range: 5 °C above ambient to 99 °C (± 0.5 °C at 37 °C)
- Convenient adjustment of water level with engraved level scale
- Heater located underneath the water chamber
- LED display for temperature, time, and power failure
- Supplied with flat bath cover, gable cover optionally available
- Bath capacity: 10 l



### Water bath with shaking feature (NB303)

#### Specifications of water bath:

- Temperature range: 5 °C above ambient to 80 °C (± 0.3 °C at 37 °C)
- Heater located underneath the water chamber
- LED display for temperature, speed, time, and power failure
- Supplied with spring wire rack
- No bath cover included (303BC12 can be ordered separately, see below)



Shaking Type

#### Specifications of shaker:

- Orbital shaking speed: 30 to 200 rpm, orbital diameter: 22 mm
- Timer: up to 48 hours, or continuous operation
- Brushless DC motor for low noise level and reduced vibration

| Cat. No. | Description  |
|----------|--|
| NB301    | <b>Water bath</b> , with flat cover, max. 10 l, external (internal) dimensions (w x d x h): 270 x 345 x 225 mm (240 x 300 x 150 mm)  |
| NB303    | <b>Water bath with orbital shaking feature</b> , with spring wire rack, max. 10 l, <u>without</u> cover (available separately, see 303BC12), external dimensions (w x d x h): 310 x 345 x 260 mm |
| 301BC12  | Gable cover for NB301  |
| 303BC12  | Gable cover for NB303  |

## Vacuum Evaporator

- Infrared glass lid spreads heat and infrared radiation to reduce time required for evaporation of samples using vacuum e.g. for DNA or RNA samples
- Easy control of sample without stopping spin by using the real scope
- Temperature range: 35 °C to 65 °C (0.1 °C increments)
- 3 selectable rotation speeds: 1700, 2500, or 5000 rpm
- LED display for temperature and timer
- Vacuum pump and glass trap are built-in
- Optional cold trap available



| Cat. No.  | Description  |
|-----------|--|
| NB503CIR  | <b>Vacuum evaporator</b> , with real scope for sample observation, dimensions (w x d x h): 213 x 255 x 225 mm, <u>no rotor supplied</u> (has to be ordered separately, please see below) |
| 503-0524  | Rotor for 50 x 0.5 ml tubes  |
| 503-1524  | Rotor for 24 x 1.5 ml tubes  |
| 503-10016 | Rotor for 16 x 10 ml tubes   |
| 503-15012 | Rotor for 12 x 15 ml tubes   |
| 503-30008 | Rotor for 8 x 30 ml tubes  |

## Multi Functional Workstation for Stem Cell Research, Cell Isolation and Handling

Reduces the possibility of contamination since multiple operations can be performed within the workbench.

The following features are included:

### Laminar air flow cabinet:

- 2 x HEPA filters (99.99 % efficiency on particles of 0.3 µm)
- 2 x UV sterilization lamps (each 20 W)

### Shaking incubator:

- Temperature range: 5 °C above ambient to 60 °C
- Shaking speed: 30 to 300 rpm
- Orbital diameter: 22 mm
- Platform size: 250 x 310 mm
- LED display
- Timer: up to 48 h, or continuous operation

### Centrifuge:

- Swing rotor
- Max. speed: 5000 rpm
- For up to 32 x 15 ml tubes or 8 x 50 ml tubes
- Timer: up to 99 hours, 59 minutes or continuous operation

The supplied foot pedals can be used to start and stop the centrifuge and shaking incubator.

Optional accessories on request.



centrifuge

shaking incubator

| Cat. No. | Description   |
|----------|---|
| NB803MS  | <b>Multi functional workstation</b> , with laminar air flow cabinet, shaking incubator, and centrifuge, chamber dimensions (w x d x h): 800 x 650 x 620 mm, overall dimensions (w x d x h): 900 x 790 x 1920 mm |

## MiniCell™ – Small Portable CO<sub>2</sub> Incubator

- Compact incubator with carrying handle for easy transport (weight: 6.8 kg)
- External (internal) dimensions (w x d x h): 292 x 333 x 433 mm (224 x 200 x 340 mm)
- Temperature range: 15 °C to approx. 45 °C at ambient 25 °C (± 0.25 °C at 37 °C)
- CO<sub>2</sub> range: 0 to 20 % (infrared sensor); CO<sub>2</sub> accuracy: ± 0.1 % at 5 %
- Cooling and heating by Peltier system for low-noise operation
- User-friendly digital control with LED display
- Excellent temperature uniformity
- Supplied with:
  - o Water tray for natural humidity up to 80 %
  - o 2 stainless steel shelves (max. 3 shelves can be fitted)
  - o Connection cable to use MiniCell™ in car (12 V car plug)



| Cat. No.   | Description   |
|------------|---|
| NB203M     | <b>MiniCell™ CO<sub>2</sub> incubator</b> , capacity 15.2 l   |
| 203M-Hole  | Access port (12 mm diameter) with stopper (has to be ordered with unit, cannot be fitted later into existing units) |
| 203M-Shelf | Additional stainless steel shelf  |

## CO<sub>2</sub> Incubators with or without Touch Screen

- Temperature range: 5 °C above ambient to 60 °C (± 0.25 °C at 37 °C)
- CO<sub>2</sub> range: 0 to 20 % (infrared sensor)
- CO<sub>2</sub> accuracy: ± 0.1 % at 5 %
- Stainless steel interior and perforated shelves
- Double door: compact outer door and clear tempered glass inner door
- Supplied with water tray for natural humidity
- Heated door prevents condensation on glass door
- Incubators without access port, feature has to be ordered separately



- Chamber volume, external (internal) dimensions (w x d x h):
  - ▶ NB203: 42 l 408 x 482 x 550 mm (320 x 350 x 370 mm)
  - ▶ NBT203: 42 l 408 x 482 x 550 mm (320 x 350 x 370 mm)
  - ▶ NB203XL: 180 l 560 x 665 x 945 mm (473 x 528 x 710 mm)
  - ▶ NBT203XL: 180 l 560 x 665 x 945 mm (473 x 528 x 710 mm)
  - ▶ NBT203XL-28: 280 l 700 x 690 x 1070 mm (603 x 580 x 790 mm)
  - ▶ NB203XXL: 850 l 820 x 950 x 1840 mm (698 x 799 x 1528 mm)

### Cat. No.

### Description

|             |  |
|-------------|--|
| NB203       | <b>CO<sub>2</sub> incubator</b> , supplied with 2 shelves (max. 4 shelves), chamber vol. 42 l                    |
| NBT203      | <b>NB203 CO<sub>2</sub> incubator with touch screen</b>  |
| NB203XL     | <b>CO<sub>2</sub> incubator</b> , supplied with 3 shelves (max. 6 shelves), chamber vol. 180 l                   |
| NBT203XL    | <b>NB203XL CO<sub>2</sub> incubator with touch screen</b>  |
| NBT203XL-28 | <b>CO<sub>2</sub> incubator with touch screen</b> , supplied with 3 shelves (max. 8 shelves), chamber vol. 280 l |
| NB203XXL    | <b>CO<sub>2</sub> Incubator</b> supplied with 3 shelves (max. 15 shelves), chamber vol. 850 l                    |

### Optional accessories

|              |  |
|--------------|--|
| 203-SH-SET   | Shelf Set for NB203, NBT203, perforated shelves  |
| 203XL-SH-SET | Shelf Set for NB203XL, NBT203XL, perforated shelves  |
| 203-HOLE     | 25 mm Access Port with silicon stopper   |
| 203-UV       | UV Sterilization   |
| 203-FILTER   | Anti-bacterial Air Filter  |
| 203-ING      | 2 divided inner glass doors for NB203, NBT203  |
| 203XL-ING    | 6 divided inner glass doors for NB203XL, NBT203XL  |
| 203-125      | 125 °C Hot Air Sterilization for NB203, NBT203   |
| 203XL-125    | 125 °C Hot Air Sterilization for NB203XL, NBT203XL   |
| 203-COOL     | Peltier Cooling Option for NB203, NBT203   |
| 203XL-COOL   | Peltier Cooling Option for NB203XL, NBT203XL   |
| 203-COP      | Copper Chamber for NB203, NBT203 (Only available when ordering two NB203)                                      |
| 203XL-COP    | Copper Chamber for NB203XL, NBT203XL (Only available when ordering two NB203XL)                                |
| 203-114      | Caster Base Tray for NB203, NBT203   |
| 203XL-114    | Caster Base Tray for NB-203XL  |
| 203-113      | Humidity Display (No Control, LED Display and Humidity Sensor)   |
| 203-HUMTR    | Humidification with one humidifier for NB203, NBT203, NB203XL and NBT203XL (Dehumidification is not available) |
| 203XXL-HUMTR | Humidification with one humidifier for NB203XXL, (Dehumidification is not available)                           |
| 203-O2       | Oxygen Control (Hypoxia, 1 % ~ 19 %)   |
| 203-REG-H    | CO <sub>2</sub> Regulator (Harris, USA)  |

# Max Cell™ – Large Capacity CO<sub>2</sub> Incubator - 880 liters

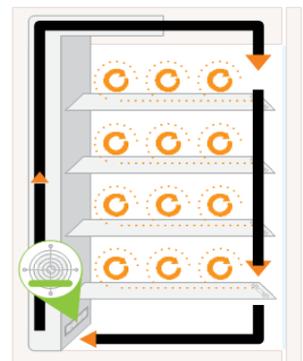
## Specifications of incubator:

- Temperature range: 7 °C above ambient to 60 °C (± 0.5 °C at 37 °C)
- CO<sub>2</sub> range: 1 to 20 % (Dual Beam IR CO<sub>2</sub> Sensor); CO<sub>2</sub> accuracy: ± 0.1 % at 5 %
- Incubator with a microprocess PID control
- Air jacket, 6 side direct heating
- Stainless Steel 304 interior and perforated shelves
- Double door: powder coated outer door (heated) and clear tempered glass inner door (optional heated)
- Supplied with water tray for natural humidity (80 to 90 %) or optional ultra sonic humidifier
- Quantity of shelves depends on the model (0 to 5)
- 18 cm full colour and user-friendly LCD touchscreen
- Internal memory for recording up to 6 months with a USB 3.0 Port
- Real-time monitoring system with a screen lock
- Alarm for temperature, CO<sub>2</sub>, door open, sensor failure
- Independent analogue thermostat for temperature safety
- 4 x Fans at back bottom for vertical laminar airflow
- 2 x Access Ports (each at left and right side)
- Mobile due to the four adjustable castors

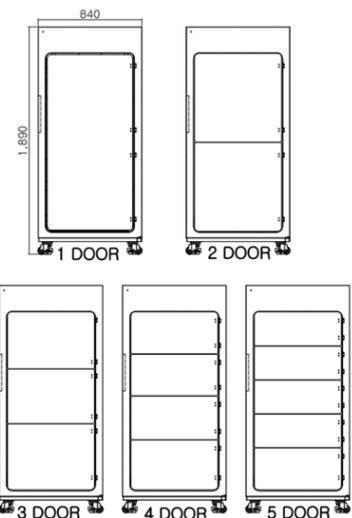
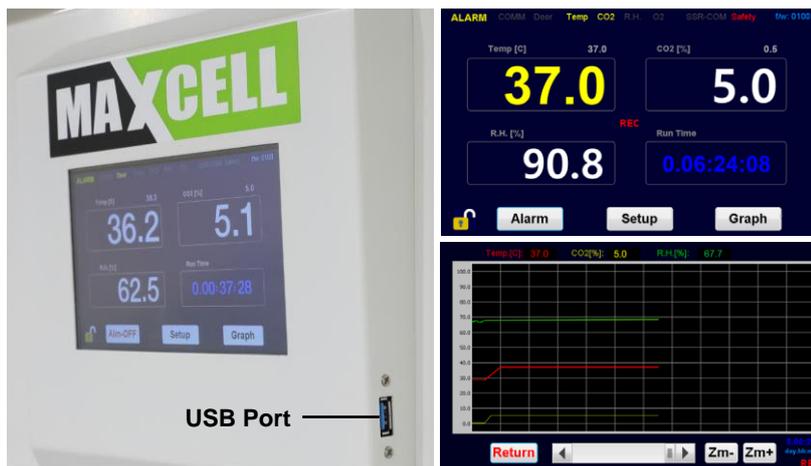


## Optional features and accessories on request:

- o Heated glass interior door
- o Stainless steel shelf
- o Stainless steel shelf with front sealing gasket
- o Low oxygen control (1 to 19 %)
- o Humidification with ultrasonic humidifier
- o Split inner glass door
- o 25 positions of shelf and 5 types of glass doors (also, customization available)



- Chamber volume, external (internal) dimensions (w x d x h):
  - ▶ NBT203XXL: 880 l 840 x 930 x 1890 mm (720 x 800 x 1530 mm)



5 models available

| Cat. No.     | Description  |
|--------------|--|
| NBT203XXL-1D | <b>Max Cell™</b> , 1 full inner glass door model, chamber vol. 880 l, shelves are not included and have to be ordered separately |
| NBT203XXL-2D | <b>Max Cell™</b> , 2 divided inner glass doors model, chamber vol. 880 l, incl. 3 shelves  |
| NBT203XXL-3D | <b>Max Cell™</b> , 3 divided inner glass doors model, chamber vol. 880 l, incl. 3 shelves  |
| NBT203XXL-4D | <b>Max Cell™</b> , 4 divided inner glass doors model, chamber vol. 880 l, incl. 4 shelves  |
| NBT203XXL-5D | <b>Max Cell™</b> , 5 divided inner glass doors model, chamber vol. 880 l, incl. 5 shelves  |

## aniCell™ – Large CO<sub>2</sub> Incubators with Integrated Orbital Shakers

### Specifications of incubators:

- Temperature range: 5 °C above ambient to 60 °C ( $\pm 1$  °C at 37 °C)
- CO<sub>2</sub> range: 0 to 20 % (infrared sensor); CO<sub>2</sub> accuracy:  $\pm 0.3$  % at 5 %
- HEPA filter
- Outer door with magnetic lock
- Built-in UV lamp (4 W) with on/off switch on incubator's outside control panel
- Microprocessor controlled incubator and shaker
- Chamber volume, external (internal) dimensions (w x d x h):
  - ▶ NB206CX: 450 l 820 x 780 x 1360 mm (700 x 650 x 1030 mm)
  - ▶ NB206CXL: 650 l 820 x 780 x 1740 mm (700 x 650 x 1430 mm)
  - ▶ NB206CXXL: 850 l 820 x 920 x 1840 mm (700 x 800 x 1530 mm)
- Interior divided into 2 or 3 compartments, each compartment contains:
  - o 1 separate inner door made of tempered safety glass
  - o 1 orbital shaker; each with individual control and pull-out platform for easy access
- Dimensions of compartments (w x d x h):
  - ▶ NB206CXL: bottom compartment: 700 x 650 x 430 mm  
top and middle compartments: 700 x 650 x 380 mm
  - ▶ NB206CXXL: all 3 compartments: 700 x 780 x 410 mm



NB206CXXL

### Specifications of integrated orbital shakers (NB101M):

- Brushless DC motor for low noise level and reduced vibration
- Shaking speed: 30 to 200 rpm ( $\pm 1$  rpm) or 30 to 250 rpm ( $\pm 1$  rpm); orbit diameter: 25 mm
- Timer: up to 48 hours, or continuous operation
- Dimensions of shaker (w x d x h): 465 x 520 x 125 mm; dimensions of platform: 520 x 520 mm
- Automatic stop/restart function if inner door is opened/closed
- A sticky mat and various platforms for flasks, tube racks, 96-well microplates are available, please see page 12 or contact us for further information.

| Cat. No.  | Description   |
|-----------|---|
| NB206CX   | „aniCell“™, large CO <sub>2</sub> incubator, with 2 orbital shakers, chamber vol. 450 l |
| NB206CXL  | “aniCell”™, large CO <sub>2</sub> incubator, with 3 orbital shakers, chamber vol. 650 l |
| NB206CXXL | “aniCell”™, large CO <sub>2</sub> incubator, with 3 orbital shakers, chamber vol. 850 l |

## CO<sub>2</sub> Incubator with 2 Integrated Orbital Shakers

### Specifications of incubator:

- Temperature range: 5 °C above to 50 °C ( $\pm 0.25$  °C at 37 °C)
- CO<sub>2</sub> range: 0 to 20 % (infrared sensor); CO<sub>2</sub> accuracy:  $\pm 0.1$  % at 5 %
- Excellent uniformity of CO<sub>2</sub>, temperature and humidity
- Included: a water tray for natural humidification and an LED display
- Microprocessor controlled incubator and shaker with external control panel
- Chamber volume, external (internal) dimensions (w x d x h):
  - ▶ NB206CL: 179 l 560 x 665 x 945 mm (473 x 528 x 710 mm)

### Specifications of integrated orbital shakers (NB101S):

- Brushless DC motor for low noise level and reduced vibration
- Shaking speed: 30 to 200 rpm ( $\pm 1$  rpm)
- Orbit diameter: 22 mm
- Timer: up to 48 hours, or continuous operation
- Platform size: 300 x 330 mm
- Optional platform to enable switch between orbital and reciprocal motion available
- Supplied with a basic platform with silicone rubber mat (not suitable for shaking of flasks etc.)
- A sticky mat and various platforms for flasks, tube racks, 96-well microplates are available, please see page 12 or contact us for further information



NB206CL

| Cat. No. | Description   |
|----------|---|
| NB206CL  | CO <sub>2</sub> Incubator with 2 integrated orbital shakers, chamber vol. 179 l<br>1 inner glass door / not divided |

## Incubators with 1 Integrated Orbital Shaker, also with CO<sub>2</sub> control

### Specifications of incubators:

- Temperature range: 5 °C above room temperature to 60 °C (± 0.25 °C at 37 °C)
- LED display
- Microprocessor controlled incubator and shaker with external control panel
- Chamber volume, external (internal) dimensions (w x d x h):
  - ▶ NB205Q: 142 l 545 x 545 x 870 mm (480 x 435 x 694 mm)
  - ▶ NB203QS: 179 l 560 x 665 x 945 mm (473 x 528 x 710 mm)
- Only NB205Q:
  - o Automatic stop when door is opened
  - o Window on outer door
- Only NB203QS:
  - o Inner door made out of tempered safety glass, outer door with magnetic lock
  - o CO<sub>2</sub> range: 0 to 20 % (infrared sensor); CO<sub>2</sub> accuracy: ± 0.1 % at 5 %



NB205Q

### Specifications of integrated orbital shaker (NB101S):

- Brushless DC motor for low noise level and reduced vibration
- Shaking speed: 30 to 300 rpm (± 1 rpm); orbit diameter: 22 mm
- Timer: up to 48 hours, or continuous operation
- Optional platform to enable switch between orbital and reciprocal motion available
- Supplied with a basic platform with silicone rubber mat (not suitable for shaking of flasks etc.)
- A sticky mat and various platforms for flasks, tube racks, 96-well microplates are available, please see page 12 or contact us for further information



NB203QS

| Cat. No. | Description   |
|----------|---|
| NB205Q   | <b>Incubator with integrated orbital shaker</b> , supplied with 2 shelves and 1 orbital shaker, chamber vol. 142 l              |
| NB203QS  | <b>CO<sub>2</sub> Incubator with integrated orbital shaker</b> , supplied with 1 shelf and 1 orbital shaker, chamber vol. 179 l |

## Stackable Shaking Incubator

### Specifications of incubators:

- Temperature range:
  - ▶ NBT207: 5 °C above room temperature to 60 °C (± 1 °C at 37 °C)
  - ▶ NBT207F: 4 °C to 60 °C (± 1°C at 37 °C)
- Uniform temperature inside the whole incubator due to special Top-Back-Bottom air circulation
- User-friendly and intuitive LCD Touch Screen
- Door with window, LED lamp on the inside of the incubator
- Standard model with integrated access port
- Chamber volume, external (internal) dimensions (w x d x h):
  - ▶ NBT207 & NBT207F: 149 l 600 x 870 x 730 mm (480 x 435 x 694 mm)

### Specifications of integrated orbital shaker:

- Brushless DC motor for low noise level and reduced vibration
- Shaking speed: 30 to 300 rpm (± 1 rpm); orbit diameter: 19 mm
- Timer: up to 99 h 59 min, or continuous operation
- Platform size: 450 x 450 mm

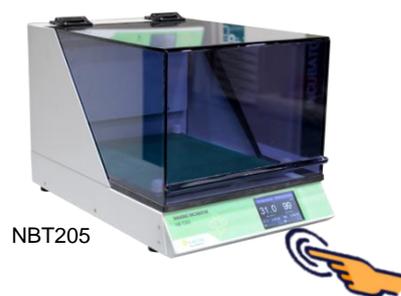
| Cat. No. | Description  |
|----------|--|
| NBT207   | <b>Stackable shaking incubator with integrated orbital shaker</b> supplied with 1 shelf, chamber vol. 149 l                      |
| NBT207F  | <b>Stackable shaking incubator with integrated orbital shaker and cooling function</b> supplied with 1 shelf, chamber vol. 149 l |



NBT207F

## Benchtop Shaking Incubators with or without Touch Screen

- Clear cover opening upwards
- Temperature range: 5 °C above ambient to 60 °C ( $\pm 0.25$  °C at 37 °C)
- Microprocessor controlled incubator and shaker
- Brushless DC motor for low noise level and reduced vibration
- Orbital movement ( $\varnothing$  22 mm)
- Shaking speed: 30 to 300 rpm ( $\pm 1$  rpm)
- Timer: up to 99 h 59 min, or continuous operation
- Automatic shaking stop when door is opened
- User-friendly and intuitive LCD Touch Screen
- Supplied with a basic platform with silicone rubber mat (not suitable for shaking of flasks etc.)
- Various platforms for flasks, tube racks, 96-well microplates are available, please see page 12 or contact us for further information



NBT205

| Cat. No. | Description   |
|----------|---|
| NB205    | <b>Mini shaking incubator</b> , external dimensions (w x d x h): 285 x 400 x 290 mm, basic platform: 250 x 310 mm, unit height with open door: approx. 680 mm |
| NBT205   | <b>Mini shaking incubator NB205 with touch screen</b>   |
| NB205L   | <b>Large benchtop shaking incubator</b> , external dimensions (w x d x h): 510 x 600 x 470 mm, basic platform: 450 x 450 mm                                   |
| NBT205L  | <b>Large benchtop shaking incubator NB205L with touch screen</b>  |

## Shaking Incubators with cooling function

### General features

- Brushless DC motor for low noise level and reduced vibration
- Shaking speed: 30 to 300 rpm ( $\pm 1$  rpm)
- Orbital diameter: 22 mm
- Timer: up to 99 h 59 min, or continuous operation
- Automatic shaking stop when door is opened
- Unit not supplied with platform, has to be ordered separately (see page 12)
- Various platforms for flasks, tube racks, 96-well microplates are available, please see page 12 or contact us for further information



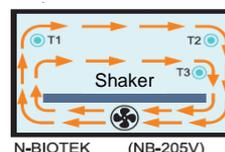
NB205LF

### Benchtop incubator NB205LF with or without touch screen

- Large benchtop unit with clear cover that opens upwards
- Temperature range: 12 °C below ambient to 60 °C ( $\pm 1$  °C at 37 °C)
- Minimum temperature: 4 °C (at 16 °C)
- Uniform temperature inside, built-in CFC-free compressor
- Defrosting system for long lasting cooling power
- User-friendly and intuitive LCD Touch Screen

### Floor standing incubator NB205V

- Viewing window in the door (door opens upwards)
- Temperature range: 4 °C to 60 °C ( $\pm 0.25$  °C at 37 °C)
- Microprocessor controlled, LED display, stainless steel chamber
- Uniform temperature inside, built-in compressor
- Optional feature on request: illumination system



N-BIOTEK (NB-205V)

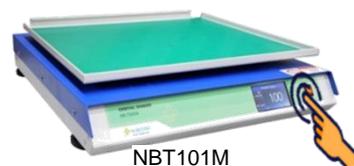


NB205V

| Cat. No. | Description   |
|----------|---|
| NB205LF  | <b>Large benchtop shaking incubator with cooling feature, without platform</b> , unit dimensions (w x d x h) 550 x 790 x 555 mm |
| NBT205LF | <b>Large benchtop shaking incubator NB205LF with cooling feature and touch screen</b>   |
| NB205V   | <b>Floor standing incubator with cooling feature, without platform</b> , unit dimensions (w x d x h): 600 x 660 x 995 mm        |

## Orbital Shakers with optional Remote Control and Touch Screen

- 2 versions: mini shaker and medium shaker
- User-friendly and intuitive LCD Touch Screen with
  - o Standard-, temperature- or shaker focused display
  - o Programmable steps for temperature and speed, PID-controlled
- Units with **separate remote controller** can be used in incubators with a humidity up to 85 % and an ambient temperature of 4 °C to 60 °C, since main board and touch screen are installed in remote box away from high humidity, CO<sub>2</sub> or extreme temperatures
- Thin wire cable between shaker and control box can pass through sealing of inner glass door if no access port is available
- Brushless DC motor for low noise level and reduced vibration
- Shaker motor is covered with epoxy to protect electric parts from high moisture
- Shaking speed: 30 to 300 rpm ( $\pm 1$  rpm); orbit diameter: 22 mm
- Timer: up to 99 h 59 min, or continuous operation
- Optional platform for NBT101S to enable switch between orbital and reciprocal motion available
- Supplied with a basic platform with silicone rubber mat (not suitable for shaking of flasks etc.)
- A sticky mat and various platforms for flasks, tube racks, 96-well microplates are available, please see page 12 or contact us for further information.



(on the right: separate remote controller to be placed outside an incubator)

| Cat. No.    | Description  |
|-------------|--|
| NB101S      | <b>Mini shaker</b> , basic platform: 300 x 330 mm, unit dimensions (w x d x h): 305 x 350 x 75 mm  |
| NBT101S     | <b>Mini shaker NB101S with touch screen</b>  |
| NB101SRC    | <b>Mini shaker NB101S with separate remote controller</b> , controller dimensions (w x d x h): 190 x 50 x 140 mm, controller weight: 2 kg                    |
| NBT101SRC-V | Same as NB101SRC but with <b>vibration function</b> , 2 mm orbit size, 200 to 1200 rpm   |
| NBT101SRC   | <b>Mini shaker NB101S with separate remote controller and touch screen</b>   |
| NB101M      | <b>Medium shaker</b> , basic platform: 460 x 455 mm, unit dimensions (w x d x h): 465 x 540 x 125 mm   |
| NBT101M     | <b>Medium shaker NB101M with touch screen</b>  |
| NBT101MRC   | <b>Medium shaker NB101M with separate remote controller and touch screen</b> , controller dimensions (w x d x h): 190 x 50 x 140 mm, controller weight: 2 kg |

## Multi and Combination Shaker with Touch Screen

- 2 versions:
  - ▶ NBT101MT: Orbital **or** reciprocal movement
  - ▶ NBT101MC: Orbital **and** reciprocal movement
- User-friendly and intuitive LCD Touch Screen:
  - o Standard-, temperature- or shaker focused display
  - o Programmable steps for temperature and speed
  - o PID-controlled: no overshooting of shaking speed
- Brushless DC motor for low noise level and reduced vibration
- Shaking speed: 30 to 300 rpm ( $\pm 1$  rpm); orbit diameter: 22 mm
- Timer: up to 99 h 59 min, or continuous operation
- NBT101MT is supplied with a basic platform with silicone rubber mat (not suitable for shaking of flasks etc.). A sticky mat and various platforms for flasks, tube racks, 96-well microplates are available, please see page 12 or contact us for further information.
- NBT101MC consists of two platforms with mounted spring racks. These can be combined to one platform.



| Cat. No. | Description  |
|----------|--|
| NBT101MT | <b>Multi shaker with touch screen</b> , orbital <b>or</b> reciprocal movement, with silicon rubber mat, basic platform: 460 x 455 mm, dimensions (w x d x h): 465 x 540 x 125 mm |
| NBT101MC | <b>Combination shaker with touch screen</b> with two spring racks mounted, dimensions (w x d x h): 465 x 540 x 195 mm  |

→ Shaker accessoires: see page 12

## Stempia – Adipose-derived Stem Cell Isolation Kit

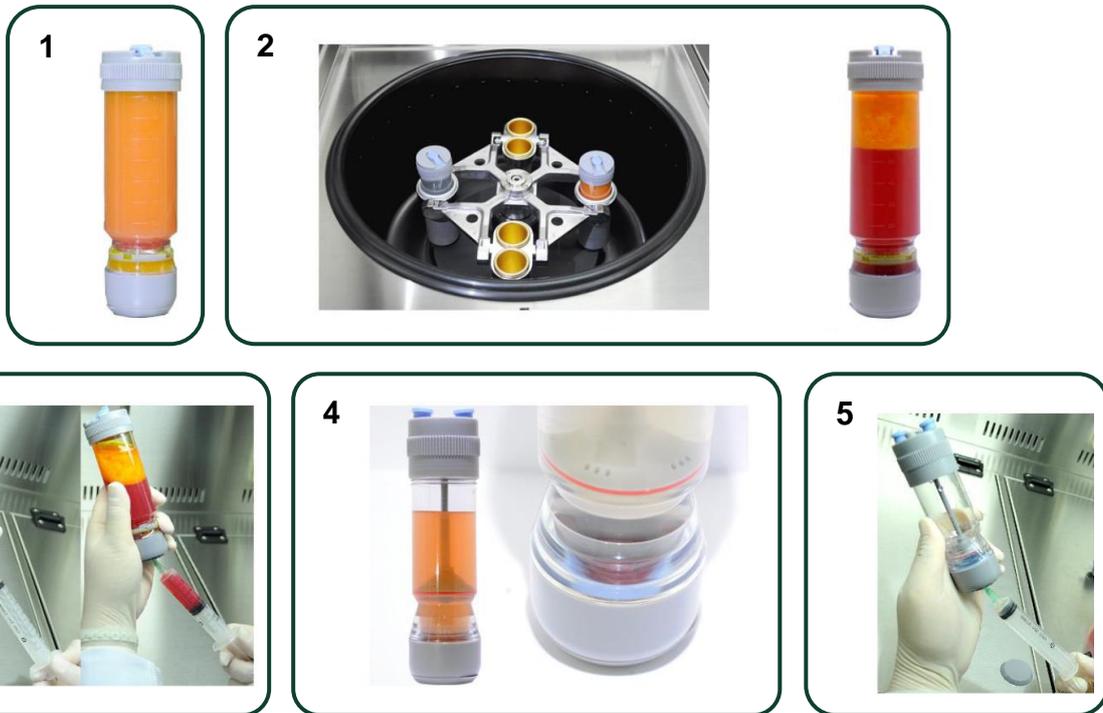
Lipoaspirates, a side product from liposuction, contains many adipose-derived stem cells (ACS). These cells are enriched in stromal vascular fraction (SVF) and share many similarities with bone marrow stem cells, thereby making them an interesting option for autologous treatment in various orthopaedic applications.

### Stempia simplifies isolation of SVF to a few simple steps:

1. 40 ml fat and 40 ml enzyme are transferred to the isolation tube and thoroughly mixed.
2. SVFs is separated by the integrated filter and collected at the bottom of the tube via one time centrifugation.
3. SVF is removed from the isolation tube and transferred to the second tube for washing and enrichment.
4. The fraction is washed 2 times with normal saline to remove remaining enzyme.
5. In a last step, SVF is taken up in 4-9 ml and ready to be extracted from the tube.



### ► Total process time of isolation: about 1 h



### Specifications of both tubes:

- Isolation tube has a capacity of up to 80 ml (max. 40 ml adipose tissue), the second tube for washing has a capacity of up to 50 ml.
- Dimensions per tube: 140 x 38 mm
- Tube material: Tritan, polypropylene and medical silicon
- Sterilized by gamma irradiation
- Available certificates: FDA (Class I), CE (Class I), ISO9001, ISO14001

| Cat. No. | Description  |
|----------|--|
| NB-R001  | <b>Stempia SVF isolation kit</b><br>contains isolation tube and second tube for washing and enrichment |
| NB-R002  | Stempia isolation tube   |
| NB-R003  | Stempia wash and enrichment tube   |

Further products from our portfolio:



## Incubators



**Standard Incubators**



**Refrigerated Incubators  
with Peltier cooling**



**Drosophila Incubators  
with Peltier-cooling**



**CO<sub>2</sub> Incubators  
water or air jacketed**



**Roll-In Large Capacity Incubators with or without CO<sub>2</sub> feature  
and suitable Roller Apparatus**



## Ovens



**Standard and High Performance  
Ovens**



**Cleanroom Ovens**



**Vacuum Ovens**

## Heating Baths



**Shaking Water Baths**



**Lab Armor® Bead Baths**

➤ Additional models and accessories for all equipment available.

## Shaker Accessories

For each shaker, shaking incubator or incubator with integrated shaker various support platforms and accessories are available. The catalogue number depends on the shaker model, **please contact us for further information.**



2<sup>nd</sup> platform with 4 legs



platform with premounted spring rack



platform with premounted clamps



platform with premounted microplate rack

## Support platform

| Cat. No.  | Description  |
|-----------|--|
| 101S-SWPL | Support platform for NBT101S to switch between orbital and reciprocal motion |
| XXXX-PL   | Support platform without clamps (suitable clamps see below)                  |
| XXXX-H10  | Support platform with premounted clamps for 100 ml flasks                    |
| XXXX-H25  | Support platform with premounted clamps for 250 ml flasks                    |
| XXXX-H50  | Support platform with premounted clamps for 500 ml flasks                    |
| XXXX-H100 | Support platform with premounted clamps for 1000 ml flasks                   |
| XXXX-H200 | Support platform with premounted clamps for 2000 ml flasks                   |
| XXXX-MP   | Support platform with premounted clamps for microplates                      |
| XXXX-SR   | Support platform with spring wire rack, can be used with tubes and vessels   |
| XXXX-2S   | Additional 2 <sup>nd</sup> support platform, with 4 legs                     |

## Clamps, racks, and sticky mat

| Cat. No.     | Description   |
|--------------|---|
| CL100        | Clamp for 1 x 100 ml flask                                  |
| CL250        | Clamp for 1 x 250 ml flask                                  |
| CL500        | Clamp for 1 x 500 ml flask                                  |
| CL1000       | Clamp for 1 x 1000 ml flask                                 |
| CL2000       | Clamp for 1 x 2000 ml flask                                 |
| CLMP         | Clamp for 1x Microplate rack                                |
| 101S-TR14    | Tube rack for 56 x 10 ml tubes, tube diameter: <b>14 mm</b> |
| 101S-TR16    | Tube rack for 32 x 15 ml tubes, tube diameter: <b>16 mm</b> |
| 101S-TR19    | Tube rack for 32 x 15 ml tubes, tube diameter: <b>19 mm</b> |
| 101S-TR30    | Tube rack for 10 x 50 ml tubes, tube diameter: <b>30 mm</b> |
| 101-STICKY   | Sticky mat 400 x 500 mm                                     |
| 101-STICKY-S | Sticky mat 300 x 330 mm                                     |

For more information, please visit our website [www.dunnlab.de](http://www.dunnlab.de)

or contact us directly at [info@dunnlab.de](mailto:info@dunnlab.de).