KB MEDICAL(GROUP), INC.

Our Headquarters
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Website: www.kbmed.com

Our production unit
Jiangsu Kangbao Medical Equipment Co. Ltd.
Add.: No. 78, North Suzhong Road, Baoxing, Yangzhou city, Jiangsu, China 225000

Our commercial office
Hangzhou Best Valley Medical Technology Co. Ltd.
Add.: Room 1105, Tower A, Wutufanshenglong Mansion,
No. 356 East Fengzi Road, Jianggan district, Hangzhou, China 310020
Tel: 0088-571-87687813, 87975379, 87983593
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Website: www.kbmed.com

KB Medical Group
The Specialist in Safety Medical Products and Nutrition Care
www.kbmed.com

PRODUCT CATALOGUE
KB Medical Group was founded in Irvine, California. A professional company specialized in producing innovative Safety Medical Products to protect health care workers against sharps injury. KB Medical Group is committed to address these issues by providing the most effective safety-engineered therapy devices for optimum safety in the hospitals.

In the past several years, KB Medical Group focus on working on a wide variety of innovative, high-quality enteral feeding products and accessories uniquely designed for delivering nutrition and medication to pediatric and adult patients. This new standard ENFit® connection has been introduced in-line with ISO80369-3 has a unique enteral-specific design that help reduce the risk of enteral tube feeding misconnections and improve the patient safety.

**KB Medical Group in the world**
- Our Headquarter: Irvine, California, USA.
- Our production unit: Jiangsu Kangbao Medical Equipment Co. Ltd. is our professional manufacturer in Jiangsu province, China (1 hour away Shanghai) for more than 30 years.
- Our commercial office: Hangzhou Best Valley Medical Technology Co. Ltd. is our Commercial Center in China which is located at Hangzhou, Zhejiang province (40 minutes away Shanghai), the center in charge of the business communication with customers, arrange the customers for visiting plan, QA audit, also provide service for the registration documents and documentary works.

**Key facts of our KB Medical Group**
- 600 Employees
- Over 70,000m² Land of production unit in China
- Over 12,000m² Clean room in China (100,000 grade)
- Over 40,000m² Workshops in China
- 3 Subsidiaries
- Over 200 Worldwide distributors

**Quality, Certificate, Innovation**
- EN ISO 13485: 2012
- CE
- FDA
- Over 24 Registration Certificate in SFDA China
- Over 6 Invention Patent
- Over 12 Utility Model Patent
- High-Tech Enterprise
Key facts of our production unit

- 40 sets: Injection molding machines
- 16 sets: Auto printing lines for syringes
- 8 sets: Auto-assembling machines for syringes
- 8 sets: Blister packing machines
- 8 sets: Auto-loading packing machines for syringe (1/3/5/10/20/60/100ml)
- 1 set: Auto-assembling machine for infusion set
- 1 set: Auto-assembling machine for scalp vein set
- 3 sets: Auto-assembling machines for hypodermic needle
- 3 sets: Modernization testing lab for Physical, Chemical and Biological
- 3 sets: EO Sterilization chamber
Infusion therapy

Infusion set

- Spike with drip chambers
- Flow regulators
- Injection ports
- Transfer sets
- Y Injection ports
- Connectors

We offer a wide variety of IV accessories to meet the needs of current practice:
- Small drip chamber 14.30*150mm.
- Medium drip chamber 15.50*155mm.
- Big drip chamber 17.20*161mm.
- With air vent, without air vent.
- Transfer set.
- 15 drops, 20 drops, 60 drops/ml.
- With filter or without filter.
- Small flow regulator: Medium flow regulator: ABS
- Adelberg flow regulator:
- Accurate flow regulator rate of 5ml/hr to a maximum of 300ml/hr.
- Latex straight tube, Injection bulb, Y injection port.
- Latex free straight tube, injection bulb, Y injection port.
- Needleless Y injection port, Needle free injection cap.
- Luer slip, Luer lock connector.
- Red cap, blue cap, white cap.
- PVC tube length 1.5m to 2m or any required length.
- PVC tube DIHP FREE.
- Non-PVC tubing.
- Customization mold construction for any kind of components.

IVB150-2

Features
- Soft and transparent chamber for easy to read graduations scale.
- Rotating disk for easy fluid level indication and auto shut-off to resist the air bulb to the vein.
- Integral 25 micron air-guard filter to prevent air introduction.
- 60 drops/ml
- Gravity scale

Description
- Soft chamber 100ml, with air vent, latex tube, tube 1.5m, luer lock with needle.
- Hard chamber 100ml, with air vent, latex bulb, luer slip with needle.
- Soft chamber 150ml, with air vent, with latex shut-off valve, Y injection port, tube 1.8m, luer lock with needle.
- Soft chamber 300ml, with air vent, with latex shut-off valve, 7/32mm tube to comply with the infusion spike.
- Soft chamber 1.50ml, with air vent, with latex free shut-off valve, needleless Y injection port, tube 2.1m, luer lock without needle.

Code
- IVB150-1
- IVBH110-1
- IVB150-1
- IVB150-1
- IVB150-1
- IVB150-1
Infusion therapy

IV cannula

Delivering solutions in IV therapy for a short term period.

Features
- Color-coding casing cap allows for easier identification of catheter size.
- Translucent catheter hub and flashback chamber allows for easy detection of blood.
- Flash back at vein insertion.
- Teflon radio-opaque catheter.
- Precision finished pet or pu catheter assures stable flow and eliminates catheter tip kink.
- The sharp needle features a universal bevel geometry that allows a wider choice of insertion angles.
- Can be connected to syringe by removing filter cap to expose luer taper end.
- Use of hydrophobic membrane filter eliminates blood leakage.
- Close and smooth contact between catheter tip and inner needle enhances safe and smooth.
- Vein puncture.

Pencil type

Injection type

Wing type with heparin cap

Safety IV cannula

Features
- Safety design can reduce needle stick injuries.
- Result in less blood exposure to staff than catheters featuring spring-retraction of the needle.
- Promote first Stick Success.
- The safety design ensures that the safety mechanism is always activated and prevents re-insertion of the stilette.
- No extra steps are required to ensure healthcare worker and patient safety.
- With this easy-to-use safety IV catheter, you can be confident of successful needle and catheter placement every time.
- PVC-Free, DEHP-Free and Latex-Free.
- Close system and open system available.

Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Gauge</th>
<th>Size and length</th>
<th>Color</th>
</tr>
</thead>
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<tr>
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<td>18G</td>
<td>2&quot;</td>
</tr>
<tr>
<td>IVCP15</td>
<td>IVC14</td>
<td>20G</td>
<td>21/2&quot;</td>
</tr>
<tr>
<td>IVCP16</td>
<td>IVC16</td>
<td>21G</td>
<td>11/4&quot;, 11/2&quot;, 2&quot;</td>
</tr>
<tr>
<td>IVCP18</td>
<td>IVC18</td>
<td>22G</td>
<td>1&quot;</td>
</tr>
<tr>
<td>IVCP20</td>
<td>IVC20</td>
<td>24G</td>
<td>1/2&quot;, 1&quot;</td>
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<tr>
<td>IVCP22</td>
<td>IVC22</td>
<td>24G</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>IVCP24</td>
<td>IVC24</td>
<td>24G</td>
<td>3/4&quot;</td>
</tr>
</tbody>
</table>
Infusion therapy

IV cannula dressing
Fixing IV catheter, PICC and CVC catheter. Apply for friction skin or wet skin, such as skin care after tracheal incision. Apply for slight bruise, cut, suturing wound, etc. as a secondary fixation.

Features
- High permeability, avoid causing maceration to the skin.
- Prevent bacteria invasion, diminish the risk of infection.
- Waterproof, patient can take shower or bath.
- Transparent, wound situation could be observed anytime.
- Soft and comfortable, suit for different body parts, hypoallergenic.
- Strong viscosity, could keep on skin for 7-10 days.
- Safe and convenient, the design of dressing make it easy operation.
- Various sizes and styles, including paper frame IV dressing, new utility style, hydrocolloid IV dressing, high-permeable grid-coating transparent dressing, PE foam frame IV dressing, non-woven IV dressing, and could fit to different clinical needs.
- Easy to use, could prevent wrinkling of dressings, absorbent pad could add to the dressing based on customer's requirements.
- Super absorbency, can prevent maceration.

Sterile IV start kit
- Gauze sponges, 3x2"x0.4u.
- Label with four lines (optional).
- Tourniquet 3/4x18" synthetic.
- IV dressing, Nm 6x2cm.
- PE tape, 3/4x18".
- Presp. appx. 2%/ch. 1.5ml. (optional).
- Customization types are possible.

Infusion therapy

Extension tube
Features
- Our extension sets are available in various lengths and dimensions to accommodate various applications.
- A range of lengths that provide flexibility in a variety of clinical settings.
- Available with various needleless connector options.
- A range of various flow clamps, components, connector options.
- To prevent dislodgment of IV catheter and offers ease of use during connection.
- Components are available for DEHP free or latex free.
### Infusion therapy

**Three way stopcock**

Maximize fluid flow control and fluid and drug delivery efficiency.

**Features**

- We can offer a full range of stopcocks to assist you in controlling fluid flow through IV delivery systems.
- Single packaged, as various options to meet all of your IV therapy needs.
- All options are liquid resistant with a transparent housing for clear view of the fluid path.

![Stopcock images](image)

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### Syringe and needle

**Disposable syringe with needle**

Injection or harvesting of biological material depending on choice of needle.

**Features**

- Luer slip or luer lock nozzle, central or eccentric nozzle.
- High transparency barrel.
- Smooth consistent plunger action.
- Clear, legible and easy to read graduated scale.
- Minimal dead space.
- Triple contact rubber gasket and plunger-block to prevent accidental leakage during aspiration.
- Well rounded finger grips for safe handling.
- 5 parts and 2 parts are available.
- Sterilized with Ethylene Oxide.
- Gamma ray resistant material are available.
- Latex free pistons are available.

![Syringe images](image)

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**Table: Specifications**

<table>
<thead>
<tr>
<th>Spec</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 parts</td>
<td>1ml</td>
<td>DS3P-1</td>
</tr>
<tr>
<td>5 parts/2 parts</td>
<td>3ml</td>
<td>DS3P-5/DS2P-3</td>
</tr>
<tr>
<td>3 parts</td>
<td>5ml</td>
<td>DS3P-5</td>
</tr>
<tr>
<td>5 parts/2 parts</td>
<td>10ml</td>
<td>DS3P-10/DS2P-10</td>
</tr>
<tr>
<td>3 parts</td>
<td>20ml</td>
<td>DS3P-20</td>
</tr>
<tr>
<td>5 parts</td>
<td>50ml</td>
<td>DS3P-50</td>
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<tr>
<td>5 parts</td>
<td>60ml</td>
<td>DS3P-60</td>
</tr>
<tr>
<td>5 parts</td>
<td>100ml</td>
<td>DS3P-100</td>
</tr>
</tbody>
</table>
Syringe and needle

Disposable syringe with safety needle

Features
- Compatible with all standard hypodermic needles.
- Convenient to use, one-hand activation, minimal training required.
- Economic; reduce the cost of safety injection.
- Triple safety mechanism to guarantee 100% safety.
- Visual confirmation of safety activation.
- Click device guarantees no obstruction during injection.
- Both luer slip and luer lock nozzle are available.

Type 1

Type 2

Size | Code
--- | ---
1ml | DS51-2, DS52-2
2-3ml | DS51-4, DS52-4
5ml | DS51-10, DS52-10
10ml | DS51-30, DS52-30
20ml | DS51-50, DS52-50
50ml | DS51-100, DS52-100
100ml | DS51-1000, DS52-1000
Syringe and needle

Safety syringe

It is used in extraction of clinical liquid medicine and for injection, help eliminate accidental needle stick injury.

Features
- Available without needle or needle. Compatible with all standard hypodermic needles.
- Conveniet to use, safety mechanism will be activated when the intended dose has been delivered.
- Pull back the plunger after injection, the locking ring secures the needle in the barrel of the syringe preventing the reuse of syringes.
- Special design can prevent the needle back into the barrel occasionally.
- No gap design guaranteed the complete injection without dead space.
- Exchangeable needles allow clinician to change needle after aspiration of medication.
- Visual confirmation of safety activation.
- Various range of syringes to meet the clinical requirements.

Using step
- Take off the needle protector.
- Aspiration the medication.
- The safety mechanism is automatically activated.
- After injection, pull back the plunger to the locking ring.
- Break the plunger.

Syringe and needle

Safety needle

It is compatible with all syringes in clinical injection of liquid medicine, easy to use, help eliminate accidental needle stick injury.

Features
- It is compatible with all standard syringes with luer lock or luer slip tip.
- Optimum visualisation of injection site.
- After the injection, only one hand activation, the needle was covered completely which can immediately achieve the purpose of protection.
- Special safety lock on needle hub, triple safety mechanism to guarantee 100% safe protection.
- Effective function and simple design can reduce the cost of safety injection.
- Easy and quick identification of the needle gauge by ISO colorful coded.
- A wide range of sizes are available.

Using step
- Assemble the safety needle on the luer tip of sterilized syringe.
- Open the safety protector, which will open automatically under the elastic force.
- Aspirate the medication.
- After injection, apply a force on the safety protector by one hand until the safety protector covers the needle completely.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Needle size</th>
<th>Size and length</th>
<th>Gauge and length</th>
<th>Color</th>
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</thead>
<tbody>
<tr>
<td>SN1-16</td>
<td>0.5ml</td>
<td>27G-10G</td>
<td>0.33-15</td>
<td>26Gx1-1/2&quot;</td>
<td>Red</td>
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<tr>
<td>SN1-24</td>
<td>1ml</td>
<td>27G-9G</td>
<td>0.40-10-16</td>
<td>26Gx1-1/2&quot;</td>
<td>Brown</td>
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<tr>
<td>SN1-32</td>
<td>1ml</td>
<td>27G-8G</td>
<td>0.45-10-16</td>
<td>26Gx2-1/2&quot;</td>
<td>Grey</td>
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<tr>
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<td>1ml</td>
<td>27G-7G</td>
<td>0.50-16-25</td>
<td>26Gx2-1/2&quot;</td>
<td>Brown</td>
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<tr>
<td>SN1-50</td>
<td>1ml</td>
<td>27G-6G</td>
<td>0.55-25</td>
<td>26Gx2-1/2&quot;</td>
<td>Orange</td>
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<tr>
<td>SN1-60</td>
<td>1ml</td>
<td>27G-5G</td>
<td>0.60-25-38</td>
<td>26Gx2-1/2&quot;</td>
<td>Purple</td>
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<tr>
<td>SN1-70</td>
<td>1ml</td>
<td>27G-4G</td>
<td>0.70-25-38</td>
<td>26Gx2-1/2&quot;</td>
<td>Black</td>
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<tr>
<td>SN1-80</td>
<td>1ml</td>
<td>27G-3G</td>
<td>0.80-20-38</td>
<td>26Gx2-1/2&quot;</td>
<td>Black</td>
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<td>SN1-90</td>
<td>1ml</td>
<td>27G-2G</td>
<td>0.90-38</td>
<td>26Gx2-1/2&quot;</td>
<td>Green</td>
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<tr>
<td>SN1-100</td>
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<td>27G-1G</td>
<td>1.10-58</td>
<td>26Gx2-1/2&quot;</td>
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<td>SN1-110</td>
<td>1ml</td>
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<td>1.20-58</td>
<td>26Gx1-1/2&quot;</td>
<td>Cream</td>
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<td>SN1-120</td>
<td>1ml</td>
<td>27G-1&quot;</td>
<td>1.40-38</td>
<td>26Gx1-1/2&quot;</td>
<td>Pink</td>
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<tr>
<td>SN1-130</td>
<td>1ml</td>
<td>27G-2&quot;</td>
<td>1.60-38</td>
<td>26Gx1-1/2&quot;</td>
<td>White</td>
</tr>
</tbody>
</table>
Syringe and needle

Safety needle

Using step
- Latest innovative design with special safety shield.
- Protection to healthcare worker during transporting device and after use.
- Glue much easy operation to nurses.
- Safety locked by a slight pushing up.
- Compatible with all kinds of syringes.

Disposible hypodermic needle

Features
- High quality 304 stainless steel.
- Triple sharpened tip with anti-coring treatment maximize patient comfort.
- Both short bevel and long bevel are optional.
- Silicon coated to ease skin penetration and minimize pain.
- Large ID, high flow, both thin wall, and regular wall are available.
- Semi-transparent needle-hub.
- International color coded hub by size for clear recognize.
- Customer special needle size as per required.

Size | Color/Code | Length | ID | Bevel Angle | Code
--- | --- | --- | --- | --- | ---
0.25 | 3KG | Blue | 12 | 3/16 | SN2-27
0.25 | 3KG | Light yellow | 12 | 3/16 | SN2-28
0.3 | 3KG | Red | 12 | 3/16 | SN2-29
0.36 | 28G | Blue-green | 12 | 3/16 | SN2-30
0.4 | 27G | Grey | 12 | 3/16 | SN2-31
0.45 | 26G | Brown | 12 | 3/16 | SN2-32
0.55 | 25G | Purple | 12 | 3/16 | SN2-33
0.55 | 25G | Blue | 12 | 3/16 | SN2-34
0.7 | 25G | Black | 12 | 3/16 | SN2-35
0.7 | 25G | White | 12 | 3/16 | SN2-36
0.9 | 20G | Yellow | 12 | 3/16 | SN2-37
1.0 | 19G | Grey | 12 | 3/16 | SN2-38
1.0 | 19G | Pink | 12 | 3/16 | SN2-39
1.2 | 17G | Red-purple | 12 | 3/16 | SN2-40
1.6 | 16G | White | 12 | 3/16 | SN2-41
1.8 | 15G | Blue-grey | 12 | 3/16 | SN2-42
2.0 | 16G | Pale-green | 12 | 3/16 | SN2-43

Remark: We can make special size according to clients’ request.
Syringe and needle

Auto-Disable syringe for fixed-dose immunization

It is mostly used for WHO or UN aid project, the plunger of syringe was locked to prevent the reuse, help eliminate touch contamination.

Features

- In all cases, once the auto-disable feature has been activated, it was not possible to re-use the syringe and the needle under the normal conditions of use.
- It was not be possible to override the auto-disable feature when tested in accordance with the test method of ISO7886-3 Annex C.
- If an integrated needle is used, it shall become an integral part of the syringe and can not be detached.
- The auto-disable feature is automatically and remains effective from the point when 50% of the intended fixed dose has been delivered.
- Invention patented.

Syringe with non-integrated needle shall have a minimum needle unison force applied as push or pull in the direction of the needle axis in accordance with ISO 7886-3.

The auto-disable feature is automatically activated on completion of the delivery of the intended fixed dose.

Central luer slip or eccentric luer slip.

Pre-filled flush syringe

Our flush syringes provide dependable, cost-effective alternatives to valve-based flushing systems.

Type 1: With integrated needle

Code | Size | Needle size
--- | --- | ---
ADS1-0.05 | 0.05ml | 23G-27G
ADS1-0.2 | 0.2ml | 23G-27G
ADS1-0.3 | 0.3ml | 23G-27G
ADS1-0.4 | 0.4ml | 25G-27G
ADS1-0.5 | 0.5ml | 25G-27G
ADS5-1 | 1ml | 25G-27G

Type 2: With non-integrated needle

Code | Size | Code No. | Size
--- | --- | --- | ---
ADS2-2 | 2ml | ADS2-5 | 5ml
ADS2-3 | 3ml | ADS2-10 | 10ml

Code | Size
--- | ---
PF55 | 5ml
PF510 | 10ml
**Syringe and needle**

### Dental needle

**Features**
- High quality 304 stainless steel.
- Short and long needle bevels are available.
- Color-coded hub by size for clear recognition.
- Different sizes available.
- Designed special for dental use.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Length</th>
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<tbody>
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<td>25G</td>
<td>38/25/23mm</td>
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<tr>
<td>DN27</td>
<td>27G</td>
<td>38/25/23mm</td>
</tr>
</tbody>
</table>

**Irrigation needle**

The irrigation needle is intended for irrigation purposes in dentistry and ophthalmology, or used for withdrawal of drugs/solutions out of vials.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size and length</th>
<th>Color</th>
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</thead>
<tbody>
<tr>
<td>IN 27</td>
<td>27G x 15 15mm</td>
<td>Grey</td>
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<tr>
<td>IN 25</td>
<td>25G x 15 15mm</td>
<td>Orange</td>
</tr>
<tr>
<td>IN 23</td>
<td>23G x 15 15mm</td>
<td>Blue</td>
</tr>
<tr>
<td>IN 22</td>
<td>22G x 15 15mm</td>
<td>Black</td>
</tr>
<tr>
<td>IN 21</td>
<td>21G x 15 15mm</td>
<td>Green</td>
</tr>
<tr>
<td>IN 20</td>
<td>20G x 15 15mm</td>
<td>Yellow</td>
</tr>
<tr>
<td>IN 18</td>
<td>18G x 15 15mm</td>
<td>Pink</td>
</tr>
</tbody>
</table>

**Veterinary needle**

Used for veterinary intradermal, subcutaneous, intramuscular and intra-articular injection, harvesting of biological material depending on chosen gauge.

**Features**
- Luer fitting or lock fitting are available.
- By copper base and strong enough.
- Full range for chosen.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
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<tbody>
<tr>
<td>VN16</td>
<td>16G</td>
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<tr>
<td>VN15</td>
<td>15G</td>
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<tr>
<td>VN14</td>
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<td>VN13</td>
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<td>24G</td>
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<tr>
<td>VN25</td>
<td>25G</td>
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</tbody>
</table>
Syringe and needle

Hard pack syringe

We offer syringes for the pet care market.

Features

- Hard pack design, convenient and safe cartridge pack, easily disposed of and transportable.
- Heat sealed cap for assurance of sterility.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
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<tbody>
<tr>
<td>HS01</td>
<td>3ml</td>
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<td>HS02</td>
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</tr>
<tr>
<td>HS03</td>
<td>1ml</td>
</tr>
<tr>
<td>HS10</td>
<td>0.5ml</td>
</tr>
</tbody>
</table>

Hazardous drug safety

Drug preparation

We offer various drug preparation needles for safety drug admixture, minimizes the risk of needle stick injury while drawing up medication, medication reconstitution and accessing IV bags.

Aspiration needle with safety shield

Features

- USA Patent pending; PCT with a priority date already initiated.
- FDA 510K approved.
- The shield that prevents accidental needle stick injury, 100% to protect the doctors and nurses from the danger.
- Intended for aspiration of medications from all kinds of vials safely.
- Injection of medications into IV rubber ports safely.
- Transfer of biological specimens, blood into vacuum specimen tubes safely.
- Compatible with standard luer slip and luer lock syringes.

Blunt needle with/without filter

Blunt needle is a sterile, single use device used for safety drug admixture.

Features

- 45° bevel angle optimized for fluid transfer with e.g. stoppered vials, glass and plastic ampoules.
- 45° bevel angle thin walled cannula for faster draw-up (up to 30% higher draw-up speed in comparison to comparable products in the market).
- Made of stainless steel with special smoothing bevel.
- Blunt smoothing bevel design minimizes the risk of needle stick injury while drawing up medication, medication reconstitution and accessing IV bags.
- Red colored hub and protective cap for clear differentiation.
- Blunt needle with filter with a Smicro filter membrane to prevent glass particles being drawn into the syringe when preparing medication from ampoules.
**Curved needle**

**Features**
- The curved needle will reduce the risk of needle stick injuries.
- To avoid cutting the rubber pieces during the penetration.

**Side hole needle**

**Features**
- The side hole needle could avoid cutting the rubber pieces during the penetration.

<table>
<thead>
<tr>
<th>Spec.</th>
<th>Size</th>
<th>Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blunt needle</td>
<td>14G</td>
<td>without filter</td>
<td>BLR14</td>
</tr>
<tr>
<td>Blunt needle</td>
<td>16G</td>
<td>without filter</td>
<td>BLR16</td>
</tr>
<tr>
<td>Blunt needle</td>
<td>18G</td>
<td>with filter / without filter</td>
<td>BLF18/BFL18</td>
</tr>
<tr>
<td>Blunt needle</td>
<td>19G</td>
<td>with filter / without filter</td>
<td>BLF19/BFL19</td>
</tr>
<tr>
<td>Blunt needle</td>
<td>20G</td>
<td>without filter</td>
<td>BLR20</td>
</tr>
<tr>
<td>Blunt needle</td>
<td>21G</td>
<td>without filter</td>
<td>BLR21</td>
</tr>
<tr>
<td>Curved needle</td>
<td>14G</td>
<td>without filter</td>
<td>CV14</td>
</tr>
<tr>
<td>Curved needle</td>
<td>16G</td>
<td>without filter</td>
<td>CV16</td>
</tr>
<tr>
<td>Curved needle</td>
<td>18G</td>
<td>without filter</td>
<td>CV18</td>
</tr>
<tr>
<td>Curved needle</td>
<td>19G</td>
<td>without filter</td>
<td>CV19</td>
</tr>
<tr>
<td>Curved needle</td>
<td>20G</td>
<td>without filter</td>
<td>CV20</td>
</tr>
<tr>
<td>Side hole needle</td>
<td>18G</td>
<td>without filter</td>
<td>SHN18</td>
</tr>
<tr>
<td>Aspiration needle</td>
<td>18G</td>
<td>without filter</td>
<td>ASN18</td>
</tr>
</tbody>
</table>

**Needle free system**

**Features**
- Needle-free system that utilizes split septum technology similar to that of a conventional needle system.
- A blunt plastic cannula replaces the standard needle, to provide needle-free safety while requiring little or no change in existing protocol or IV procedures.
- Designed to eliminate accidental needle stick.
- Provides a reliable injection site that is a closed system, accessed by inserting a cannula.
- Designed to ensure a safe, secure connection with Clip Lock cannula.
- Compatible with IV fluids, including blood and lipids.
- Visually inspect — with a clear outer housing that allows visible flush confirmation, and an open fluid path that has no fluid entrapment areas.
- Clean — its smooth access surface facilitates effective cleaning and disinfection.
- Connect — minimal connection force is needed, allowing quick, effortless access and easy syringe connection.
- We offer a variety of needleless connector devices to meet the desired need of individual facilities.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safeline</td>
<td>Compatible with IV fluids, including blood and lipids.</td>
</tr>
<tr>
<td>SafelineY</td>
<td>Compatible with infusion set and IV burette.</td>
</tr>
<tr>
<td>SafelineR</td>
<td>Innovative positive displacement feature is designed to help reduce catheter occlusions while preventing healthcare workers from accidental needlestick injuries. Compatible with IV catheter.</td>
</tr>
<tr>
<td>SafelineP</td>
<td>Compatible with all infusion bottle or medication vial. The ergonomic grip design is ideal for clinician handling and patient comfort, offering an easy-to-grip barrel designed to minimize slips and touch contamination, help make reconstituting, admixing and IV drug delivery secure and cost-effective.</td>
</tr>
<tr>
<td>Safespike</td>
<td>With filter, help make reconstructing, admixing and IV drug delivery secure and cost-effective. Help ensure fluid integrity by removing contaminated particles with a broad range of filtration devices.</td>
</tr>
</tbody>
</table>
| SafespikeF| 1. Min. dia. of filter: 0.45µm  
2. Min. dia. of filter: 5µm |
Sharps disposal solutions

Safety box for the disposal of used sharps

It could contain used contaminated sharps (including syringes, needles, phlebotomy devices, suture needles, IV insert needles, butterflys, lancets, scalpels) safely and efficiently, until safe disposal or recycling:

- At the point of use
- During temporary storage
- During handling and transport to the point of treatment and final disposal.

Features

- Exactly meet the requirements of WHO/PQS/E10/5B01.1.
- Resistance average force of penetration more than 15N from each position.
- Resistance damage during 100 drops from height of 0.8m.
- Resistance temperatures of up to 170°C, periods up to 30 minutes.
- Resistance to 48 hours at 43°C and 90% relative humidity in 5mm of water.
- Could be supplied flat-packed to minimize shipping and storage volume.
- Clearly marked with International bio-hazard warning.
- Could be carried in one hand without spillage of contents and without risk of needle stick injury.
- The Bio-degradable cardboard recycled material is used.
- Non-toxic inks, glues and dyes.
- Clear pictorial instructions without writing.
- Chinese invention patented.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Sharp aperture dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBS1.25</td>
<td>1.25L</td>
<td>Dia. 38mm</td>
</tr>
<tr>
<td>SBS2.5</td>
<td>2.5L</td>
<td>Dia. 38mm</td>
</tr>
<tr>
<td>SBS5</td>
<td>5L</td>
<td>Dia. 38mm</td>
</tr>
<tr>
<td>SBS10</td>
<td>10L</td>
<td>Dia. 38mm</td>
</tr>
<tr>
<td>SBS15</td>
<td>15L</td>
<td>Dia. 38mm</td>
</tr>
<tr>
<td>SBS20</td>
<td>20L</td>
<td>Dia. 38mm</td>
</tr>
</tbody>
</table>

- Colours: Unbleached sulphite board, or non-chlorine bleached white, or yellow

Sharp container

The waste containers used for disposal of hospital waste, it is characterized by an elevated level of safety and reliability. The material used for production guarantee the solidity, the hermetic closure, and the high resistance to shock and puncture. The containers are equipped with disposable lids.

<table>
<thead>
<tr>
<th>Code</th>
<th>Volume (L)</th>
<th>Diameter (cm)</th>
<th>Height (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC-1R</td>
<td>1.0</td>
<td>13.5</td>
<td>12.5</td>
</tr>
<tr>
<td>SC-2R</td>
<td>2.0</td>
<td>13.5</td>
<td>14.5</td>
</tr>
<tr>
<td>SC-3R</td>
<td>3.0</td>
<td>13.5</td>
<td>15.5</td>
</tr>
<tr>
<td>SC-4R</td>
<td>4.0</td>
<td>17.5</td>
<td>18.5</td>
</tr>
<tr>
<td>SC-5R</td>
<td>5.0</td>
<td>16.5</td>
<td>20.0</td>
</tr>
<tr>
<td>SC-6.3L</td>
<td>6.3</td>
<td>21.0</td>
<td>22.0</td>
</tr>
<tr>
<td>SC-8L</td>
<td>8.0</td>
<td>23.0</td>
<td>23.0</td>
</tr>
<tr>
<td>SC-10L</td>
<td>10.0</td>
<td>27.0</td>
<td>27.0</td>
</tr>
<tr>
<td>SC-15L</td>
<td>15.0</td>
<td>20-16+13</td>
<td>29.5+22.5+16</td>
</tr>
<tr>
<td>SC-20L</td>
<td>20.0</td>
<td>20-20+13</td>
<td>30.5+30+30</td>
</tr>
<tr>
<td>SC-25L</td>
<td>25.0</td>
<td>20-20+13</td>
<td>30.5+30+30</td>
</tr>
<tr>
<td>SC-30L</td>
<td>30.0</td>
<td>34.5+24.5+42</td>
<td>30.5+30+30</td>
</tr>
</tbody>
</table>

Hazardous drug safety

Sharps disposal solutions

Hazardous drug safety

Sharps disposal solutions
**Sharps disposal solutions**

**Ultimate sharps safety stations (needle counter)**

- It is used for needle or suture counting in the operation room, dangerous sticks from uncounted needles can be safely avoided from the needle stick injury.

**Features**

- We offer a wide selection of counting and disposal systems that utilize foam block, foam strip, adhesive or magnetic retention.
- Each system is housed in a flexible, impact-resistant plastic box that provides protection while minimizing unnecessary handling.
- We have USA PATENT for needle counter with more safety and function, exclusive authorized manufacturer in China.
- ICT with a priority date was already imitated.
- Detachable halos allow the same needle count set to be used in low separate areas.
- A universal needle safety holding device enable to hold either disposable syringe or scalpel.
- A needle sheathing safety removal device with a protection wall to protect the jumbing of blades.
- A needle sheathing safety device to help user's hand free and clear of the needle.
- The safety lock device guarantees the needle or blade will not slip from the gap of needle counter.
- The combination of latch and hinge provides a surprisingly secure, simple and inexpensive integrally safety box.

**Endoscope transport pad**

- It is used to pack the disposal medical drape and kits after surgery, with the drawstring design which is easy for disposal.
- Dimension: 93*100cm with core size: 41*100cm,
- Paper + PE material 90g.
- Any customization sizes are available.

**Safety medical products for NEEDLE STICK PREVENTION**

Although the Needle Stick Safety and Prevention Act was signed into legislation in the United States in 2000, there still remains much to be done to protect healthcare workers against sharps injuries that potentially expose them to deadly blood borne pathogens. According to recent research, (2013 Healthcare Worker Wills from Venous Peripheral Labether insertion), percutaneous injuries to healthcare workers from a sharps device are four times more likely to occur than mucocutaneous exposure and pose a greater threat to disease transmission. Also, according to the 2008 Study of Nurses Views on Workplace Safety and Needle Stick Injuries, nearly two-thirds of US nurses say needle stick injuries and blood borne infections remain major concerns.

In order to protect health care workers against sharps injuries, KB Medical Group is committed to address these issues by providing the most effective safety-engineered therapy devices for optimum safety in the hospitals.

**Our safety family products includes:**

(For detail product information, go to the page mentioned below):

- Safety scalp vein set (Page 1).
- Safety IV cannula (Page 6).
- Safety syringes (Page 11-13).
- Safety needle (Page 14-15).
- Auto-Disable syringe (Page 17-18).
- Needles for preparation needle (Page 22-23).
- Needle Free System (Page 24).
- Safety box for the disposal of used sharps (Page 25).
- Sharp container (Page 26, 52).
- Ultimate sharps safety stations (Page 27).
- Safety blood collection needle (Page 34).
- Safety blood lancet (Page 35).
- Safety suture needle (Page 47).
- Safety insulin syringe (Page 49-50).
- Safety insulin pen needle (Page 51).
**Nutrition therapy**

**ISO80369-3**

With further research on the structure and function of gastrointestinal tract, it has been gradually recognized that gastrointestinal tract is not only an organ of digestion and absorption, but also an important immune organ. Enteral feeding refers to the delivery of a nutritionally complete feed containing protein, carbohydrate, fat, water, minerals and vitamins, directly into the stomach, duodenum or jejunum. Enteral nutrition is the nutritional support provided by the gastrointestinal tract to provide nutrients needed for metabolism and other nutrients. It depends on the length of time, mental state and gastrointestinal function. There are three ways for enteral access:

1. Nasogastric feeding
2. Gastrostomy
3. Jejunostomy

We offer the various components for Enteral nutrition therapy.

**ENFit® syringe**

**Features**

- The Enteral ENFit® syringe tip is compliant with the ISO80369-3 to help reduce the risk of misconnections.
- Offer a full range and are the result of research aimed at creating a product with certified quality and safety features.
- DEHP free.
- Latex free plunger, made of synthetic rubber which does not contain natural latex, in order to prevent any allergies.
- Low dose syringes have a male design feature within the ENFit® female connector to prevent volume in the dead space.
- Flip cap is available. (ENC6, ENCS60)

<table>
<thead>
<tr>
<th>Spec</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>EnFit and low dose</td>
<td>1mL</td>
<td>ES1</td>
</tr>
<tr>
<td>EnFit and low dose</td>
<td>3mL</td>
<td>ES5</td>
</tr>
<tr>
<td>EnFit and low dose</td>
<td>5mL</td>
<td>ES5S</td>
</tr>
<tr>
<td>EnFit</td>
<td>10mL</td>
<td>ES10</td>
</tr>
<tr>
<td>EnFit</td>
<td>20mL</td>
<td>ES20</td>
</tr>
<tr>
<td>EnFit</td>
<td>30mL</td>
<td>ES30</td>
</tr>
<tr>
<td>EnFit</td>
<td>60mL</td>
<td>ES60</td>
</tr>
<tr>
<td>Bulb</td>
<td>60mL</td>
<td>BS60</td>
</tr>
<tr>
<td>Thumb control ring</td>
<td>60mL</td>
<td>TS60</td>
</tr>
<tr>
<td>Catheter tip</td>
<td>60mL</td>
<td>CT60</td>
</tr>
</tbody>
</table>

**The ENFit® connector**

**Features**

- The ENFit® connector is compliant with the ISO80369-3 to help reduce the risk of misconnections.
- The ENFit® connector makes enteral feeding and medication administration easy, efficient and most importantly, comfortable for patients.
- Have a wide range of connector for enteral feeding which along with the syringes, complete a range of products which enable solutions and medication to be prepared and administered in complete safety.
- Customized different connectors according to requirements.
**Nutrition therapy**

**ISO80369-3**

**ENFit® Feeding set**

**Features**
- ENFit® feeding sets are compliant with the ISO 80369-3 to help reduce the risk of misconnections.
- Patient label provides convenient patient documentation.
- Latex-free and DEHP-free.
- EVA material available.

**Advantage of EVA material**
- Ensure absolute Non-DEHP, Non-TOTM, Non-DG4 or any other plasticizer.
- Ensure absolute non risk of toxicity.
- Ensure the maximum safety for enteral feeding technology.

**Specifications**
- ENPLUS spike with cap.
- PVC tube 1.73m / 2.28m / customized.
- Regulator with wheel.
- Drip chamber.
- Y connector with cap.
- ENFit® lock female connector with cap.
- Patient label.
- Silicon insert (optional) 11cm / 13cm / customized.

**Irrigation syringe**

**Features**
- Irrigation syringes are designed for simplicity and efficiency of care.
- Irrigation syringes are available sterile or non-sterile to suit your clinical need.
- Includes syringe tip protector.

**Specifications**
- Irrigation syringes for specific volume administration.
- Clear dose scale for accurate volume administration prevention.
- Amber barrel design for protect light-sensitive drug.
- Tip cap is available.

**Table**

<table>
<thead>
<tr>
<th>Type 1</th>
<th>Type 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral tip</td>
<td>Oral tip</td>
</tr>
<tr>
<td>1ml</td>
<td>3ml</td>
</tr>
<tr>
<td>3ml</td>
<td>5ml</td>
</tr>
<tr>
<td>10ml</td>
<td>20ml</td>
</tr>
<tr>
<td>30ml</td>
<td>50ml</td>
</tr>
<tr>
<td>ORS5-01/ORS5-20</td>
<td>ORS5-10/ORS5-20</td>
</tr>
<tr>
<td>ORS5-20/ORS5-20</td>
<td>ORS5-50/ORS5-20</td>
</tr>
</tbody>
</table>

For detail product information go to page 46.
Blood collection system has advanced science of specimen collection to help laboratory tests become the foundation for 70% of all medical decisions. Today, the gold standard in sample collection is blood collection family, which most of the hospitals rely on to enhance their sample quality and protect their nurses, phlebotomists and other caregivers from costly accidental needle stick injuries. These products, backed by unrivaled customer support and training, help hospitals every day enhance lab productivity and workflow by reducing retests, recollects and instrument downtime.

- Blood collection needle with scalp vein set type. Latex free.
- Soft and transparent tube, can observe the vein blood flow clearly.
- Double wings make puncture more safe.
- Different color wings mean different sizes.

- Blood collection needle with hypodermic needle holder, latex free.
- Pen type blood collection, latex free.
- Multi-sample needles permit several samples to be taken with a single puncture.
- Sharp flat smooth edges make penetration painless, easy connection to rubber stoppers.

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>Color</th>
<th>Type 1</th>
<th>Type 2</th>
<th>Type 3</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.40</td>
<td>27G</td>
<td>Grey</td>
<td>BCM27-1</td>
<td>BCM27-2</td>
<td>BCM27-3</td>
</tr>
<tr>
<td>0.45</td>
<td>27G</td>
<td>Red</td>
<td>BCM26-1</td>
<td>BCM26-2</td>
<td>BCM26-3</td>
</tr>
<tr>
<td>0.50</td>
<td>25G</td>
<td>Orange</td>
<td>BCM25-1</td>
<td>BCM25-2</td>
<td>BCM25-3</td>
</tr>
<tr>
<td>0.55</td>
<td>24G</td>
<td>Purple</td>
<td>BCM24-1</td>
<td>BCM24-2</td>
<td>BCM24-3</td>
</tr>
<tr>
<td>0.60</td>
<td>23G</td>
<td>Blue</td>
<td>BCM23-1</td>
<td>BCM23-2</td>
<td>BCM23-3</td>
</tr>
<tr>
<td>0.70</td>
<td>22G</td>
<td>Black</td>
<td>BCM22-1</td>
<td>BCM22-2</td>
<td>BCM22-3</td>
</tr>
<tr>
<td>0.75</td>
<td>21G</td>
<td>Green</td>
<td>BCM21-1</td>
<td>BCM21-2</td>
<td>BCM21-3</td>
</tr>
<tr>
<td>0.80</td>
<td>20G</td>
<td>Yellow</td>
<td>BCM20-1</td>
<td>BCM20-2</td>
<td>BCM20-3</td>
</tr>
<tr>
<td>0.85</td>
<td>19G</td>
<td>Cream</td>
<td>BCM19-1</td>
<td>BCM19-2</td>
<td>BCM19-3</td>
</tr>
<tr>
<td>0.90</td>
<td>18G</td>
<td>Pink</td>
<td>BCM18-1</td>
<td>BCM18-2</td>
<td>BCM18-3</td>
</tr>
</tbody>
</table>

- Type 1: Scalp vein set type.
- Type 2: Safety needle type.
- Type 3: Pen type.

Remark: normal size in above table, we can also make special size as clients’ request.
Specimen Collection

Safety Blood Lancet

It is used in blood collection sampling and helps eliminate accidental needlestick injuries.

Product Features
- Needle is fully shielded before and after use.
- Cannot be reused.
- Sterilized by gamma rays.
- Pre-loaded operating design ensures a good blood sample.
- Ultra-sharp tri-bevel needle, high speed penetration.
- Multiple depth selection with color coding.

Heel Incision

Blood Collection Tube

We provide a full offering of blood collection tubes in both glass and plastic.

Blood collection tubes include silicone coated tubes that indicate the interior surface of the blood collection tube has been coated with a water-soluble silicone material.

<table>
<thead>
<tr>
<th>Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass blood collection tube</td>
<td>BCT01</td>
</tr>
<tr>
<td>Plastic blood collection</td>
<td>BCT02</td>
</tr>
<tr>
<td>Microcollection tube</td>
<td>BCT03</td>
</tr>
<tr>
<td>Non-vacuum blood collection</td>
<td>BCT04</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color</th>
<th>Additive</th>
<th>Application</th>
<th>Volume</th>
<th>Size</th>
<th>Color</th>
<th>Additive</th>
<th>Application</th>
<th>Volume</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Plain</td>
<td>Serum biochemistry</td>
<td>3mL</td>
<td>13+75</td>
<td>Green</td>
<td>Heparin</td>
<td>Plasma biochemistry</td>
<td>2mL</td>
<td>13+75</td>
</tr>
<tr>
<td></td>
<td>Electrolyte</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lithium/Natron</td>
<td>Blood gas analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tumor marker</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Blood stream changing</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Medication Inspecting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thyroid function</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>AIDS Inspecting</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>3mL</td>
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<td></td>
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</tr>
<tr>
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<tr>
<td>Red</td>
<td>Coagulant</td>
<td>Serum biochemistry</td>
<td>3mL</td>
<td>13+75</td>
<td>Purple</td>
<td>EDTA-K2</td>
<td>Blood routine</td>
<td>2mL</td>
<td>13+75</td>
</tr>
<tr>
<td></td>
<td>Electrolyte</td>
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<td></td>
<td></td>
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<td>EDTA-K3</td>
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</tr>
<tr>
<td></td>
<td>Tumor marker</td>
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<td></td>
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<td>EDTA-K4</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Medication Inspecting</td>
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<td></td>
<td></td>
<td>EDTA-Na2</td>
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</tr>
<tr>
<td></td>
<td>Thyroid function</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AIDS Inspecting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3mL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7mL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Yellow | Separating gel | Serum biochemistry | 3mL    | 13+75  | Black  | 3.8% Sodium Citrate | Platelet coagulation testing | 2.4mL | 13+75 |
|        | Electrolyte    |                                |        |        |        | Sodium citrate     |                                |        |        |
|        | Tumor marker   |                                |        |        |        | Sodium citrate     |                                |        |        |
|        | Medication Inspecting |                        |        |        |        | Sodium citrate     |                                |        |        |
|        | Thyroid function |                            |        |        |        | Sodium citrate     |                                |        |        |
|        | AIDS Inspecting |                           |        |        |        | Sodium citrate     |                                |        |        |
|        | 3mL          |                                |        |        |        |              |                                |        |        |
|        | 7mL          |                                |        |        |        |              |                                |        |        |

| Blue   | Separating gel | Serum biochemistry | 3mL    | 13+75  | Blue   | 3.8% Sodium Citrate | Platelet coagulation testing | 2.4mL | 13+75 |
|        | Electrolyte    |                                |        |        |        | Sodium citrate     |                                |        |        |
|        | Tumor marker   |                                |        |        |        | Sodium citrate     |                                |        |        |
|        | Medication Inspecting |                        |        |        |        | Sodium citrate     |                                |        |        |
|        | Thyroid function |                            |        |        |        | Sodium citrate     |                                |        |        |
|        | AIDS Inspecting |                           |        |        |        | Sodium citrate     |                                |        |        |
|        | 4mL          |                                |        |        |        |              |                                |        |        |
|        | 6mL          |                                |        |        |        |              |                                |        |        |

| White  | Separating gel | Serum biochemistry | 3mL    | 13+75  | White  | 3.8% Sodium Citrate | Platelet coagulation testing | 2.4mL | 13+75 |
|        | Electrolyte    |                                |        |        |        | Sodium citrate     |                                |        |        |
|        | Tumor marker   |                                |        |        |        | Sodium citrate     |                                |        |        |
|        | Medication Inspecting |                        |        |        |        | Sodium citrate     |                                |        |        |
|        | Thyroid function |                            |        |        |        | Sodium citrate     |                                |        |        |
|        | AIDS Inspecting |                           |        |        |        | Sodium citrate     |                                |        |        |
|        | 3mL          |                                |        |        |        |              |                                |        |        |
|        | 6mL          |                                |        |        |        |              |                                |        |        |
### Spinal needle

**Features**

- Full sizes of anesthesia needles.
- Identified as spinal needle bevel quincke tip, pencil point tip and epidural needle.
- 304 stainless steel needle tubes and stylesets.
- International colour coding.
- With mounted introducer needle.
- Laser lock hub.

**Quincke tip**

<table>
<thead>
<tr>
<th>Quincke tip</th>
<th>Introducer</th>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>22G x 1-1/2&quot;</td>
<td>None</td>
<td>90-120mm</td>
<td>SNQP23</td>
</tr>
<tr>
<td>25G x 1-1/2&quot;</td>
<td>None</td>
<td>90-120mm</td>
<td>SNQP23</td>
</tr>
<tr>
<td>27G x 1-1/2&quot;</td>
<td>None</td>
<td>90-120mm</td>
<td>SNQP23</td>
</tr>
<tr>
<td>28G x 1-1/2&quot;</td>
<td>None</td>
<td>90-120mm</td>
<td>SNQP23</td>
</tr>
<tr>
<td>30G x 1-1/2&quot;</td>
<td>None</td>
<td>90-120mm</td>
<td>SNQP23</td>
</tr>
</tbody>
</table>

**Pencil point**

<table>
<thead>
<tr>
<th>Pencil point</th>
<th>Introducer</th>
<th>Length</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>22G x 1-1/2&quot;</td>
<td>None</td>
<td>90-120mm</td>
<td>SNQP23</td>
</tr>
<tr>
<td>25G x 1-1/2&quot;</td>
<td>None</td>
<td>90-120mm</td>
<td>SNQP23</td>
</tr>
<tr>
<td>27G x 1-1/2&quot;</td>
<td>None</td>
<td>90-120mm</td>
<td>SNQP23</td>
</tr>
<tr>
<td>28G x 1-1/2&quot;</td>
<td>None</td>
<td>90-120mm</td>
<td>SNQP23</td>
</tr>
<tr>
<td>30G x 1-1/2&quot;</td>
<td>None</td>
<td>90-120mm</td>
<td>SNQP23</td>
</tr>
</tbody>
</table>

- Trauma-free QUINCKE: short tip to ensure immediate injection point closure and reduced CSF loss.
- Differentiated angle coupling of needle and obturator tip to avoid production and movement of tissue fragments, improving operator sensitivity.

### Anesthesia kit

Single-use anesthesia set is clinically used for epidural or spinal anesthesia during puncture and drug injection. This product can only be for single-use, in order to avoid cross-infection. It contains the unique components needed to perform anesthesia operation.

**Components**

- Epidural filter: 0.22μm with hydrophobic membrane laser lock.
- Luer syringe: 5ml, 2ml, 1ml.
- Catheter adaptor: TBA, secure the catheter completely.

**Optional**

- Epidural kit, spinal kit and combined kit available.
- Catheter with/w/o metal wire available.
- Precision filter 0.2–5μm available.
- Double layer UV filter 0.2–5μm are available.
- Any customization components.
Anesthesia & pain management

**High pressure manifold**

Maximize fluid flow control and fluid and drug delivery efficiency. Use two and three port normally closed valve manifolds for maximum fluid and drug delivery efficiency in the Operating Room. Confidently maintain drug dosing integrity when administering multiple drugs with back check valves in each port.

- Four valve manifold
- Triple valve manifold
- Dual valve manifold

**Features**

- No leakage under 500psi
- Smooth rotation, easy use
- Different color for choice
- DEHP-free, Latex-free

<table>
<thead>
<tr>
<th>Code</th>
<th>Spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPM4</td>
<td>Dual Valve</td>
</tr>
<tr>
<td>HPM3</td>
<td>Triple Valve</td>
</tr>
<tr>
<td>HPM2</td>
<td>Four Valve</td>
</tr>
</tbody>
</table>

**NRFit™ syringe**

It is used for regional anesthesia, the new patient safety initiative neuraxial products with NRFit™ connectors according to American Society of Anesthesiologists (ASA) meeting, Oct. 22-26 in Chicago 2016. All healthcare facilities are expected to begin converting to meet the ISO standard requiring NRFit connectors for neuraxial use. Healthcare facilities has already taken legislative action by mandating that convert to these new standardized epidural products by Jan. 1, 2017.

**Features**

- NRFit™ connectors design
- ISO80369-6 compliant
- Neuraxial applicable connector
- Small bore connectors that are intended to prevent misconnections to improve patient safety

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS3</td>
<td>3ml</td>
<td>NRFit™ connector</td>
</tr>
<tr>
<td>NRS5</td>
<td>5ml</td>
<td>NRFit™ connector</td>
</tr>
<tr>
<td>NRS10</td>
<td>10ml</td>
<td>NRFit™ connector</td>
</tr>
<tr>
<td>NRS20</td>
<td>20ml</td>
<td>NRFit™ connector</td>
</tr>
</tbody>
</table>

Transfusion therapy

**Gravity blood administration sets**

Filtration for various blood IV administration needs.

- Sharp spike is easy to puncture
- Plastic spike/metallic spike available
- Ventilated with hydrophobic bacterial filter
- The ISO standard spike can fit with any blood bags
- Soft and transparent chamber
- Extra soft & kink resistant tubes
- Acute roller clamp
- With 200micron filtration
- Latex-free
- Straight and Y type are available
- DEHP-free tube is available

- Big chamber with air inlet
- Big chamber without air inlet
- Bow chamber
Transfusion therapy

Blood bag

It is used to collect and preserve whole human blood and blood components in hospital or blood bank.

Features

- Our blood bag could not only guarantee high quality of the blood components but also to provide maximum safety during blood donation and sample collection.
- The safety needle shield enhances safety against the accidental needle stick injury that can transmit HIV, Hepatitis B and C and other blood borne diseases.
- Closed system & reusable blood sampling with vacuum tube.
- Label material with pre-cutting line and could not be tear integrated.

BB80/Single
Single blood bag is used for collection of whole human blood. It consists of one bag containing anticoagulant solution CPD-A.

BB80/Double
Double bag system consists of one primary bag containing anticoagulant solution CPD-A/CPDA and one empty satellite bag for separation of half plasma.

BB80/Triple
Triple bag system consists of one primary bag containing anticoagulant solution CPD-A/CPDA, one satellite bag containing SAGM preservation solution, and one empty satellite bag. This triple bag can maintain red blood cell viability, with over 80% of survival rate after 5 weeks of storage.

BB80/Quadruple
Quadruple bag system consists of one primary bag containing anticoagulant solution CPD-A/CPDA, one satellite bag containing SAGM preservation solution, and two empty satellite bags. The additive SAGM can maintain red blood cell viability, with over 80% of survival rate after 5 weeks of storage.

Cord blood bag

It is designed to collect the umbilical cord blood (also known as placental blood) after the birth of the baby, within the shortest time and minimal risk of contamination. The clinical use of the cord blood is in patients suffering from severe blood diseases such as leukemia, lymphoma, etc.

Optional

- Top and top system.
- Top and bottom system.
- Empty transfer bag.
- Pall leukocyte filtration system.
- Blood sampling with vacuum tube.
- Customization bags.
Urine drainage bags are intended to collect urine from sheaths or catheters. It provides solutions to help improve patient safety and infection prevention in urinary care.

**Features**
- Anti-reflux drip chamber on the bag helps prevent urine reflux.
- With slanting and non-return valve.
- Varies choice of components: universal hanger, bed sheet clamp, dog house, needless samples port.
- High grade PVC.
- Latex free.
- Tyvek pouch for O.R. pack or PE packing.

**Code**
- UDBA20: Apple shape 2000ml

**Urine meter**
- Designed for easy bag suspension with a reinforced double hanger and built-in anti-back guide.
- Convenient needleless sample port is accessible with either needleless or blunt cannula, and offers added protection for patient and caregivers.
- Adjustable bed sheet clamp secures S/Ling.
- Include additional rope hanger.

**Code**
- UM01: 600ml meter with 2600ml bag, 3 chambers.
- UM02: 800ml meter with 3000ml bag, 3 chambers.
- UM03: 1000ml meter with 3000ml bag, 3 chambers.
- UM04: 2000ml meter with 2000ml bag, 1 chamber.
- UM05: 3000ml meter with 2000ml bag, 1 chamber.

**Remark:** 200ml-500ml capacity meter is available.
Irrigation tray

Irrigation tray is designed to improve simplicity and efficiency of care.

Components

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1ea</td>
<td>1000mL collection tray</td>
<td>2ea</td>
<td>Alcohol prep pad</td>
</tr>
<tr>
<td>1ea</td>
<td>500 mL graduated container</td>
<td>1ea</td>
<td>Moisture-proof under pad</td>
</tr>
<tr>
<td></td>
<td>60mL bulb or thumb control ring syringes</td>
<td>3pr</td>
<td>Vinyl gloves</td>
</tr>
<tr>
<td>1ea</td>
<td>Protector cap</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bulb syringe

Features

- Flexible soft bulb promotes one handed administration.
- Designed to stand on the bulb end to help minimize contamination.
- Patient label provides convenient patient documentation.
- Sterile, Latex free, DEHP free, and BPA free.
- Includes syringe protector cap.

Thumb control ring syringe

Features

- Thumb control ring top allows for maximum control and one handed administration.
- Precision crafted O-ring plunger ensures a positive seal.
- Re-sealable poly bag designed for safe and convenient storage.
- Patient label provides convenient patient documentation.
- Sterile, Latex free, DEHP free, and BPA free.
- Includes syringe tip adapter and protector cap.

Flat top piston syringe

Features

- Precision crafted O-ring plunger ensures a positive seal.
- Visible dosing marks designed for ease of use.
- Latex free, DEHP free, and BPA free.
- Includes syringe luer tip adapter and protector cap.

Features

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>6ml</td>
<td>Thumb control ring type</td>
<td>URIT560</td>
</tr>
<tr>
<td>5ml</td>
<td>Bulb tip</td>
<td>URB560</td>
</tr>
<tr>
<td>5ml</td>
<td>Flat top piston</td>
<td>URF560</td>
</tr>
<tr>
<td>12ml</td>
<td>Curved tip</td>
<td>URCS12</td>
</tr>
</tbody>
</table>
Renal therapy

**Fistula needle**

We offer innovative, high performance products and services for use in dialysis. The core of the Renal Therapies spectrum provides a basis which targets improved clinical outcomes for the patient, while minimizing costs and risks for the healthcare providers.

**Features**
- Fixed and rotary wings are available.
- Japan's latest sharp needle provides for high-quality.
- The large oval orifice on the needle back.
- Unique design and smooth finish.
- Super silicon coating of inner and outer needle wall to easy of penetration and minimize the pain.
- The spiral connector fits perfectly with dialysis line.

**Safety fistula needle**

It is used for kidney disease patients to purify the blood; the safety mechanism help to eliminate accidental needle stick injuries.

<table>
<thead>
<tr>
<th>Code</th>
<th>Gauge</th>
<th>Size, length and color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVFR15/AVFR345</td>
<td>15G*1&quot;</td>
<td>1.8x25mm Blue</td>
<td>Rotary wing with back eye</td>
</tr>
<tr>
<td>AVFR16/AVFR356</td>
<td>16G*1&quot;</td>
<td>1.8x25mm Green</td>
<td>Rotary wing with back eye</td>
</tr>
<tr>
<td>AVFR17/AVFR357</td>
<td>17G*1&quot;</td>
<td>1.6x25mm Orange</td>
<td>Rotary wing with back eye</td>
</tr>
<tr>
<td>AVFSI1/AVFSI5</td>
<td>15G*1&quot;</td>
<td>1.8x25mm Blue</td>
<td>Fixed wing with back eye</td>
</tr>
<tr>
<td>AVFSI3/AVFSI5B</td>
<td>16G*1&quot;</td>
<td>1.8x25mm Green</td>
<td>Fixed wing with back eye</td>
</tr>
<tr>
<td>AVFT27/AVFT357</td>
<td>17G*1&quot;</td>
<td>1.4x25mm Orange</td>
<td>Fixed wing with back eye</td>
</tr>
</tbody>
</table>

Renal therapy

**Blood line**

**Features**
- More than 500 types can fit with Fresenius, Cambro, B Braun, Nipro, Baxter hemodialysis machine.
- Luer type is tight with the adapter of fistula needle.
- Different clamps fit for tubes of different diameter.
- Fixed connector with the wing is easy to join the adaptor of hemodialysis machine.
- Customization model are possible upon the requirements.

*Figure: Code BL*

**Hemodialysis care kit**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1ea</td>
<td>Before compartment</td>
<td>1ea</td>
<td>After compartment</td>
</tr>
<tr>
<td>1pr</td>
<td>Surgical drape 45x45cm</td>
<td>2pr</td>
<td>Examination gloves</td>
</tr>
<tr>
<td>5ea</td>
<td>Gauze ball plasm type 4.5x4.5</td>
<td>2ea</td>
<td>Gauze drape 4.5x4.5</td>
</tr>
<tr>
<td>1ea</td>
<td>Alcohol swab</td>
<td>2ea</td>
<td>Alcohol swab</td>
</tr>
<tr>
<td>2ea</td>
<td>Adhesive non-woven dressing with open cut in &quot;U&quot; shape</td>
<td>2ea</td>
<td>Surgical dressing 3x4.5x8cm</td>
</tr>
<tr>
<td>4ea</td>
<td>Adhesive non-woven dressing for stabilizing the A-V lines</td>
<td>2ea</td>
<td>Plastic band 40cm</td>
</tr>
</tbody>
</table>
Diabetes care

Safety insulin syringe

Safety insulin syringes with integrated needle. The innovative safety insulin syringe offers comfort and easy insulin therapy injection. And help eliminate accidental needle stick injury.

Features
- No gap design guaranteed the complete injection without dead space.
- Premium needle quality and silicon-coated to ease skin penetration and minimize pain.
- Convenient to use, safety mechanism will be activated when the intended dose has been delivered.
- Pull back the plunger after injection, the locking ring secures the needle in the barrel of the syringe preventing the reuse of syringes.
- Special design can prevent the needle back into the barrel occasionally.
- Visual confirmation of safety activation.
- Various range of syringes to meet the clinical requirements.

Insulin syringe

Syringes for subcutaneous insulin therapy injection.

Features
- Premium needle quality and silicon-coated to ease skin penetration and minimize pain.
- High transparency barrel with clearly readable graduated scale for better dose precision.
- No-dead-space.

Using step
- Peel open the package and take out the syringe, ready for use.
- Extract the medication and pull up the safety cartridge to protect the needle, keep them at the surgical tray and ready for injection.
- Pull back the safety cartridge and inject the drug medication by pushing the plunger.
- After the injection, pull up the safety cartridge again to cover the needle tip to avoid the injury risk.
- Rotating the safety cartridge until final locked with an audible "click" which activating the ultimate safety mechanism.
- Dispose the syringe in trash bin.

<table>
<thead>
<tr>
<th>Code</th>
<th>Unit</th>
<th>Size</th>
<th>Needle size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO1</td>
<td>U-100</td>
<td>0.3ml</td>
<td>25-33G x 1/2&quot;</td>
</tr>
<tr>
<td>ISO5</td>
<td>U-500</td>
<td>0.5ml</td>
<td>25-33G x 1/2&quot;</td>
</tr>
<tr>
<td>ISO10</td>
<td>U-1000</td>
<td>1ml</td>
<td>25-33G x 1/2&quot;</td>
</tr>
</tbody>
</table>

Needle sizes according to customer's requests

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Size</th>
<th>Needle size</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS01-03</td>
<td>Type 1</td>
<td>0.3ml</td>
<td>20-33G x 1/2&quot;</td>
</tr>
<tr>
<td>IS02-05</td>
<td>Type 2</td>
<td>0.5ml</td>
<td>20-33G x 1/2&quot;</td>
</tr>
<tr>
<td>IS01-10</td>
<td>Type 1</td>
<td>1ml</td>
<td>20-33G x 1/2&quot;</td>
</tr>
<tr>
<td>IS02-15</td>
<td>Type 2</td>
<td>1.5ml</td>
<td>20-33G x 1/2&quot;</td>
</tr>
</tbody>
</table>
Diabetes care

Safety insulin pen needle

Compatible with all pen injectors, help eliminate accidental needle stick injury.

Features
- Automatically achieve the function of protecting needle tip after use.
- Obvious observation of use status.
- Easy self-disable set.
- Easy to see the droplets.

Insulin pen needle

International standard luer lock connector is easy and safe for operation.
Triple sharpened needle.
Thin wall technology ensures optimal insulin flow.
Premium needle quality and silicon-coated to ease skin penetration and minimize pain.
Cartridge is anti-friction treated for easy, fragment-free cartridge puncture, preventing insulin contamination.
Compatible with all pen injectors.
- NovoPen 4®
- NovoPen 3®
- NovoPen Junior®
- NovoRapidPen®
- BD PurEase Pen®
- Sanofi Aventis Lantus®
- Sanofi Optipen Pro 1®
- Sanofi TacTic Pen®
- Owen Mumford: AutoPen®
- Owen Mumford: AutoPen 2®
- Lilly Humatrope®

Extra short needle length 5mm, 38% shorter than 8mm needle to guarantee the sufficient of insulin delivery and greater injection comfort.

<table>
<thead>
<tr>
<th>Code</th>
<th>Code</th>
<th>Size and length (mm)</th>
<th>Size and length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1P551</td>
<td>1P532</td>
<td>0.2 x 4.2 mm</td>
<td>0.23 x 12 mm</td>
</tr>
<tr>
<td>1P552</td>
<td>1P532</td>
<td>0.23 x 12 mm</td>
<td>0.23 x 12 mm</td>
</tr>
<tr>
<td>1P551</td>
<td>1P533</td>
<td>0.25 x 12 mm</td>
<td>0.25 x 12 mm</td>
</tr>
</tbody>
</table>

Diabetes care

Sharp disposal container for insulin pen needle

The ideal solution for home disposal of used insulin pen needle.

Features
- The lid notches enable the pen needle to be removed safely, to avoid needle stick injury.
- Convenient for people handheld from all angles.
- No harmful medical grade material.
- Anti-leak flaps prevent leakage.

Alcohol swab

Contains 70% isopropyl alcohol for optimum antibacterial action.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NC-02</td>
<td>NC-005</td>
<td>0.2L</td>
</tr>
<tr>
<td>NC-02</td>
<td>NC-005</td>
<td>0.05L</td>
</tr>
</tbody>
</table>