



DWK LIFE SCIENCES
DURAN WHEATON KIMBLE

TODAY, TOGETHER FOR TOMORROW

SUPPORTING YOUR BIO-PROCESSING AND
VACCINE MANUFACTURING NEEDS



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VIRUS TODAY.

From the discovery of the first vaccine at the end of the 18th century to the modern vaccine research of today, scientists and physicians have made a quantum leap in the development of the public healthcare sector. Severe and often fatal infectious diseases such as poliomyelitis or smallpox have been greatly reduced or even completely eradicated. Despite such great scientific achievements, our modern society is also constantly confronted with new infectious diseases for which there are still no effective vaccinations available, e.g. HIV or Ebola. In addition to these, new viral mutations and other diseases such as COVID-19 pose novel challenges to science and our society every day. There is still a long way to go and we can only win this battle together.

WORKING TOGETHER.

Our point of view, begins with you. From scientific research and technical applications to storage and packaging solutions, the world's laboratories rely on DWK Life Sciences for the most comprehensive range of precision labware and primary packaging available. Our catalog of glassware, plasticware and specialty products reflects our commitment to premium quality and ongoing innovation, all to meet your highest expectations and serve you across your research to production workflows. The experience we've gained over our 130+ year history has created the unparalleled levels of expertise trusted by our customers and distributors worldwide. Partnering with **DWK Life Sciences** you'll discover how our collaborative mindset sets us apart from others and consistently demonstrates that we're here for you. We have combined the strength of three global leading brands, **DURAN**®, **WHEATON**®, and **KIMBLE**®, with a single aim: to help you achieve excellence in your field. We want to assure you that DWK Life Sciences understands the challenges you face – from demands for accuracy to pressures around speed-to-market – and that we strive to ensure you get the right product, where and when you need it.

LET'S CLICK IT ...

Throughout this digital brochure, this hand symbol indicates links to additional online information or links within the brochure. Clicking on the specific contents leads you directly to the corresponding page (e.g. ordering information or chapter contents).



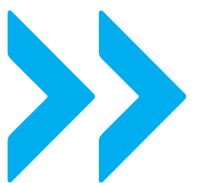
» Vaccines represent one of the most effective and cost-effective medical and public health achievements of all time. «

Alan R. Shaw Professor of Medicine and Microbiology



VACCINE TOMORROW.

It is estimated that vaccination programs save more than 2 million lives worldwide every year. In addition to the major health benefits for each individual, effective vaccines greatly reduce the burden on healthcare systems and provide associated economic benefits to society. The development of new vaccines is one of the great challenges of our time.



THREE STEPS FOR YOUR SUCCESS

SAMPLE COLLECTION & DIAGNOSTICS

1

The first step prior to any testing or vaccine development is always sample collection either from potentially infected individuals or animals which might act as vectors. To ensure the integrity and security of your samples, you need a partner you can rely on. **DWK Life Sciences can support you with sterile and non-sterile high-quality glass and plastic products that meet the different requirements in the field of sample collection and diagnostics.** For example, we offer sample containers that are IATA 95 kPa compliant supporting the requirements of the WHO and national health authorities for handling and transporting biological substances (UN 3373, Category B, packaging instruction P 650).

RESEARCH & DEVELOPMENT

2

Modern bioprocessing and vaccine development are hypothesis-driven application techniques in molecular biology and immunology facing a wide variety of needs and challenges. **DWK Life Sciences offers basic cell culture products as well as specialized innovative solutions to fit all needs and support pre-clinical vaccine research, stability studies and more.** We strive to serve you with high-quality and cost-effective solutions.

PRODUCTION & PACKAGING

3

Manufacturing and primary packaging of pharmaceutical substances and vaccines are extensively controlled and monitored with the highest demands on the quality of each product in this process. **DWK Life Sciences is your premium partner for full-scale production and pharmaceutical packaging.** We support you with custom-tailored products and premium service offerings (e.g. special cleaning and sterilization) allowing you to focus on the essentials of your work. Tubular vial manufacturing for example is a core competency meeting ISO standards for manufacturing in the pharmaceutical and biotech industry.

1

SAMPLE COLLECTION & DIAGNOSTICS

- 08 WHEATON® MicroLiter® Sample Plate
- 08 SOCOREX® Pipettes & Qualitix® Tips
- 09 WHEATON® Centrifuge Tubes
- 09 AZLON® Wash Bottles
- 10 WHEATON® Dropping Bottles
- 11 KIMBLE® Disposable Culture Tubes
- 11 WHEATON® Plastic Pasteur Pipettes

WHEATON® MICROLITER® SAMPLE PLATES

APPLICATIONS

- Sample prep and storage of buffers and reagents
- For analytical processing requiring a standardized high density matrix

FEATURES & BENEFITS

- 96-Well µL plates
- Includes pre-cut & non pre-cut µL mats™
- Glass inserts (pre-installed)
- Capacity: 700 µL - 2.2 mL
- Glass Color: Clear or Amber
- Glass insert bottom Shape: Round or Conical
- Mat Colors: Blue, Natural, Red, Green
- Septa: stopper and cap mat styles
- Septa Material: PTFE/Silicon, FEP/Silicon



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SOCOREX® PIPETTES & QUALITIX® TIPS

APPLICATIONS

- For precision liquid handling & dripless transfer
- Benchtop and confined spaces/ laminar flow hood applications

FEATURES & BENEFITS

- **3 Ergonomic Performance Models:**
Acura 825, Acura 826, Acura 835
- **Micro to Macro Volume:** 0.1µl-1000µl & 0.2ml-10ml
- Single-handed volume setting
- Justip™ adjustable tip ejector
- Swift-set user calibration system
- Shock, UV-light and autoclaving resistance
- CE Certified IVD 98/79 EEC (Acura 825 & 826)
- Pair with Qualitix® Premium Micropipette Tips



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WHEATON® CENTRIFUGE TUBES

APPLICATIONS

- For general sample management and centrifugation applications

FEATURES & BENEFITS

- Fitted with leakproof, HDPE caps to support the security of often valuable samples
- Option of 15 mL or 50 mL capacity with 50 mL self standing option – suits most user applications
- 50 mL self standing option
- Easy to read printed graduations with large write on patch
- Supplied sterile by ETO
- Supplied DNase/RNase free, non-pyrogenic <0.25 EU/mL, FDA registered
- Packed in inner bags or polystyrene racks
- RCF values up to 9.500 x g
- **Material:** Virgin, medical grade polypropylene



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AZLON® WASH BOTTLES

APPLICATIONS

- Enable safe and easy liquid and solvent dispensing
- Biocidal agents are used worldwide for disinfection, purposes to help maintain laboratory sterility

FEATURES & BENEFITS

- Range of styles and sizes: 250 mL, 500 mL and 1000 mL – suits most user applications
- Wide mouth for ease of filling
- Available pre-printed with common solvents and laboratory solutions with relevant safety information in multiple languages – supporting general safety and legislative requirements
- Vented cap feature – eliminates internal pressure build up that can cause potentially hazardous solvent drips
- A laboratory essential
- **Material:** LDPE (Low Density Polyethylene) – allowing maximum flexibility whilst maintaining excellent chemical resistance



*Available through custom order

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WHEATON® DROPPING BOTTLES WITH TIPS & CAPS

APPLICATIONS

- Dosing drop by drop, e.g. of titration solutions
- Diagnostic test kits
- Clinical, food, biochemical testing

FEATURES & BENEFITS

- Extended controlled dropping tips dispense reliable, repeatable uniform drop sizes
- Excellent chemical resistance making it ideal for most biotech, diagnostic and pharmaceutical applications
- Tips and screw caps are available in 10 different colors
- Friction and snap fit tips provide a secure fit to the bottle
- White LDPE bottle helps to protect UV light sensitive samples
- Manufactured to rigid ISO and quality standards
- Excellent alternative to pipetting
- Custom configurations are available upon request
- Also available complete with tip and cap
- Can be combined with a large selection of dropper tips and caps in different colors
- The extended controlled dropper tip dispenses one drop at a time, with an average drop size of $44 \mu\text{L} \pm 6 \mu\text{L}$.
- **Material:**
 - Bottles and tips made from natural or white LDPE (Low Density Polyethylene).
 - Screw caps are made from radiation grade polypropylene
- Bottle is not autoclavable
- **Size range:** Bottles available in sizes ranging from 1 mL to 125 mL



Tips and screw caps are available in 10 different colors

EXCELLENT ALTERNATIVE TO PIPETTING



White LDPE

Natural LDPE

Ordering information

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KIMBLE® DISPOSABLE CULTURE TUBES

VACCINE WORKFLOW



SAMPLE COLLECTION & DIAGNOSTICS

APPLICATIONS

- Suitable for cell washing procedures
- Procedures requiring excellent chemical resistance against sodium leaching

FEATURES & BENEFITS

- Sturdy, uniform bottom, and consistent lengths
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements
- Tubes are packed in convenient trays for ease of use on bench tops and in drawers
- Trays are shrink-wrapped in plastic film, with tubes remaining in constant alignment for protection against in-transit breakage and contamination
- Designed from ASTM Specification E890
- Capacities: 1-55ml
- Lengths: 50-150mm
- The 6 x 50 mm size is often referred to as a "Durham tube"
- No marking spot or cap



Ordering information

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WHEATON® PLASTIC PASTEUR PIPETTES*

APPLICATIONS

- For general liquid handling/management
- Used in Diagnostic Kits

FEATURES & BENEFITS

- Ideal for safe and easy transfer of liquids and samples
- Wide range of sizes to suit most user needs
- Graduations on 1 mL and 3 mL pipettes for easy measurement
- Narrow stem pipette is suitable for use as a freeze vial when the bulb is heat sealed
- **Material:** Non-toxic LDPE (Low Density Polyethylene) with no impact on solution being handled

*Glass Pasteur pipettes are also available



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RESEARCH & DEVELOPMENT

- 14 WHEATON® CELLine™ Bioreactor Flask
- 15 WHEATON® Serological Pipettes
- 15 WHEATON® PipetPal™ Controller
- 16 WHEATON® CryoELITE® Cryogenic Vials
- 17 WHEATON® CryoELITE® Tissues Vials
- 18 KIMBLE® KIMAX® Baffled Flasks
- 18 WHEATON® PETG Media Bottles
- 19 KIMBLE® KIMAX® GL45 Media Bottles & Caps
- 20 KIMBLE® KIMAX® Cell Culture Flask
- 20 KIMBLE® Pasteur Pipettes
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WHEATON® CELLINE™ BIOREACTOR FLASK

APPLICATIONS

- Small scale production of antibodies and other proteins
- Adherent and suspension cell culture

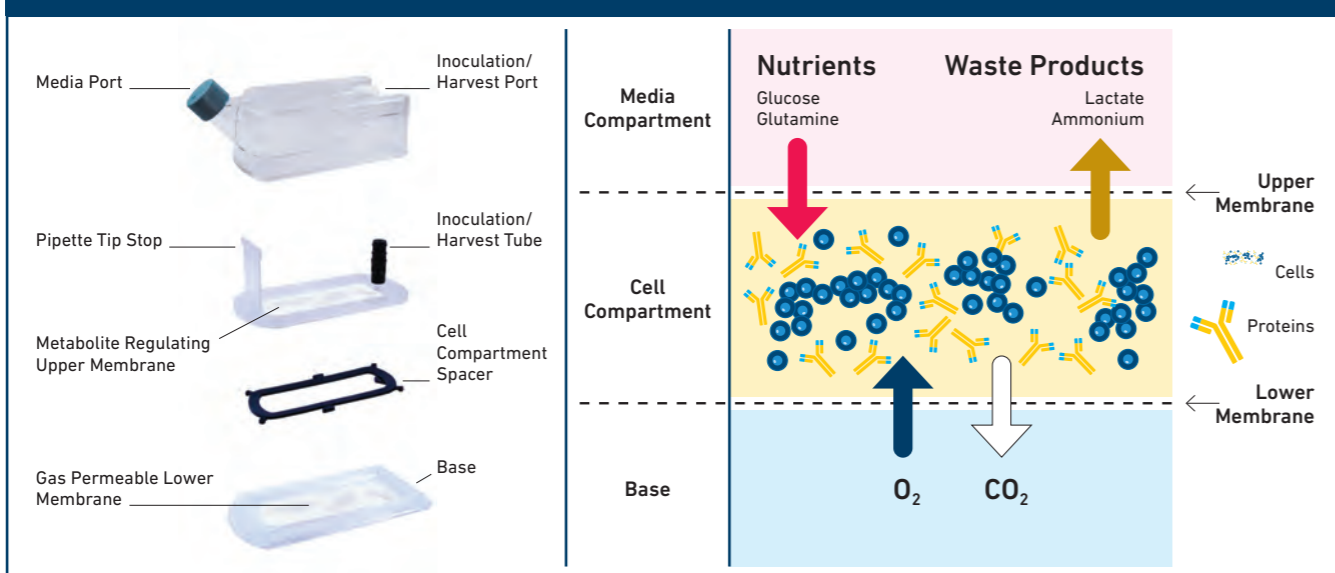
FEATURES & BENEFITS

- Multi-harvest device
- High cell density and high product concentration
- Reduces operation time
- Decreases use of consumables
- Cost-efficient, space saving, and stackable
- No additional equipment required for operation
- Much reduced handling and labor costs
- Disposable and ready-to-use
- **Material:** Flask made from polystyrene



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How does the CELLLine™ bioreactor flask work?



WHEATON® SEROLOGICAL PIPETTES



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WHEATON® PIPET-PAL™ CONTROLLER



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APPLICATIONS

- Culturing or planting cells
- Mixing cell suspensions
- Transferring cells and culture media

FEATURES & BENEFITS

- Easy to see cotton plug to prevent contamination
- Bold, clear graduations with easy to read scale markings
- Color coded to industry standards
- Bi-directional graduations giving the choice between ascending and descending scales
- **Size range:** 1 mL to 50 mL
- Manufactured in a class 100,000 clean room
- **Material:** Polystyrene material complies with USP Class VI
- Sterile with a sterility assurance level (SAL) of 10⁻⁶
- Certified non-pyrogenic to ≤0.1 EU/mL

PERFECT COMBINATION

APPLICATIONS

- For use with serological pipettes
- Culturing or planting cells
- Mixing cell suspensions
- Transferring cells and culture media

FEATURES & BENEFITS

- Lightweight (195 g) and well-balanced, making even prolonged pipetting very comfortable
- Quiet, robust pump for high pipetting speed
- Precise finger-control of pipetting enables accurate dispensing, even drop-by-drop
- Versatile for both fine dosing and gravimetric dispensing
- Designed for use with all serological pipettes in the volume range 1 mL to 100 mL
- Eliminate contamination with a replaceable, sterile filter
- Lithium-Polymer battery technology for long operating time
- Autoclavable pipette holder for cleanliness and safety
- Supplied with a universal power supply for worldwide use
- 1 year warranty
- Parts in contact with liquid flow are chemically inert, providing for stability and long instrument life.
- **Material:** Body: Polyamide. Nosepiece: Polyoxymethylene. Pipette mount: Silicone. Filter Rubber: Silicone

WHEATON® CRYOELITE® CRYOGENIC VIALS

APPLICATIONS

- Collection and storage of liquids and powders
- Biobanking

FEATURES & BENEFITS

- Freestanding or round bottom – round bottom vials allow for centrifugation up to 17,000 x g
- Unrivaled cap seal exceeds DOT and IATA regulations for transportation – ensures utmost protection during storage, transport and freeze-thaw cycles
- Loctagon™ Vial Skirt provides stability in freestanding position and locks into CryoELITE® Benchmate Rack in order to provide easy open and close with one hand
- Colored caps allow for color coding projects along with WHEATON® colored freezer and storage boxes
- Optional 2D Data Matrix Bar Code Insert provides unique identifier for traceability
- Bottom format allows unrestricted view of 2D bar code for convenient automated scanning
- **Material:** Low binding, cryogenic grade virgin polypropylene
- Lot certified DNase/RNase, endotoxin free, non-pyrogenic providing assurance for sample integrity
- Packed into sterile bags of 50
- Storage temperature range of -156 °C to 121 °C
- 1.2 mL to 5 mL volume



Colored caps
for color coding



2D Data Matrix
Bar Code Insert

Ordering information

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PERFECT
FOR CRYO-
PRESERVATION

CE IVD



VACCINE WORKFLOW



RESEARCH & DEVELOPMENT

TECHNICAL INFORMATION

CryoELITE®	
Material	Made from low binding, cryogenic grade virgin polypropylene
Temperature range	-156 °C to +121 °C, tested to -196 °C
Sterility	Lot Certified Sterile, Radiation Sterilization
DNase & RNase free	Lot Certified, Ethidium Bromide (EtBr) Agarose Gel Electrophoresis Analysis
Non-pyrogenic, endotoxin free	Lot Certified < 0.500 EU/mL (Kinetic Turbidimetric LAL Method, FDA guideline)
Seal psi	Exceeds 15 psi/1 atmosphere/95 kPa pressure tested
International Air Transportation Association (IATA)	Can be used as a primary receptacle for the Transport of Diagnostic Specimens as outlined by the IATA Dangerous Goods Regulations, Part 6.3,5
U.S. Department of Transportation (DOT)	Exceeds U.S. DOT 49 CFR Parts 171-180 requirements for Diagnostic Specimen Packing and Transportation Requirements
Liquid nitrogen	Liquid phase tested / Vapor phase accepted
Autoclavable	Recommended at +121 °C, 15 psi (1 bar) for 20 minutes
Cap pigmentation	Cap colors were chosen to ensure no reactivity with common biological samples
2D Data Matrix capacity	Numeric 16/Alphanumeric 10
2D Data Matrix symbol size	Row x Column: 14 x 14
CE IVD	Product is CE compliant to the European In Vitro Diagnostic (IVD) Medical Devices Directive 98/79/EC

WHEATON® CRYOELITE® TISSUES VIALS

APPLICATIONS

- Collection and storage of tissue samples
- Biobanking
- Forensics

FEATURES & BENEFITS

- Unrivaled cap seal exceeds DOT and IATA regulations for transportation – ensures utmost protection during storage, transport and freeze-thaw cycles
- Wide-mouth for easy insertion and removal of tissue sections with forceps
- **Material:** Low binding, cryogenic grade virgin polypropylene
- Lot certified DNase/RNase, endotoxin free, non-pyrogenic
- Packed into sterile bags of 25
- 5 mL volume



CE IVD

Ordering information

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KIMBLE® KIMAX® BAFFLED FLASKS

APPLICATIONS

- Cell cultivation
- Colony propagation

FEATURES & BENEFITS

- Baffles increase the gas exchange surface area of the liquid and the oxygen uptake
- Flask has a neck with a plain fire-polished finish and suitable for a metal cap, plastic cap, foam plug or cotton plug
- Autoclavable
- All flasks have durable white ceramic enamel marking spots
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements
- Size Range: 125ml - 2000ml



Ordering information

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WHEATON® PETG MEDIA BOTTLES

APPLICATIONS

- Media preparation and storage

FEATURES & BENEFITS

- Leak resistant, safe alternative to glass
- Standard or tamper-evident seal
- Provided sterile (double-wrapped on cardboard tray)
- DNase/RNase free
- Tamper-resistant plastic seal around cap and bottle neck ensures product integrity prior to use
- PETG Resin meets ISO 10993 and/or USP Class VI biocompatibility requirements
- Food Contact Status compliant
- Recommended temperature range +70 °C to -40 °C
- **Material:** Clear PETG (Polyethylene Terephthalate Glycol)
- Not autoclavable
- **Size range:** 30 mL to 2 L



Ordering information

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KIMBLE® KIMAX® GL45 MEDIA BOTTLES



APPLICATIONS

- Media, Reagent, Chemical & Solvents
- Preparation, Storage & Transportation
- Sterilization

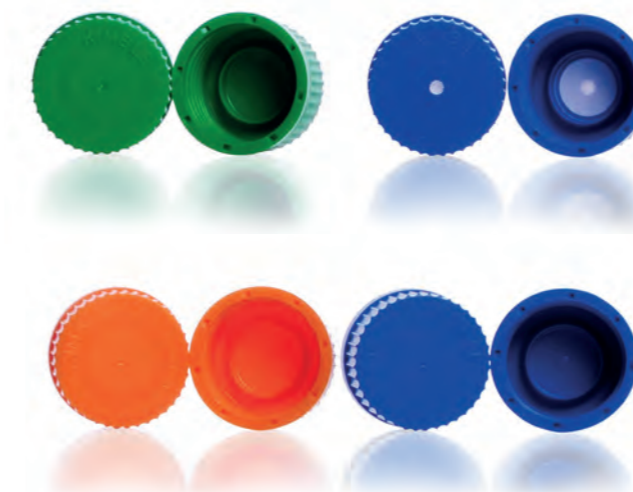
FEATURES & BENEFITS

- Gold standard for multi-functional lab bottles
- Useful manufacturing scale-up capacity options: 100 mL to 10 L
- Excellent thermal performance
- High resistance to chemical attack
- **Material:** Borosilicate glass 3.3
- Fully autoclavable
- RAYSORB® glass for light sensitive content
- KIMCOTE® safety coating available

Ordering information

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KIMBLE® GL45 BOTTLE CAPS



APPLICATIONS

- Leak Proof storage and transport of media, chemicals and samples
- Sterile and non-sterile applications
- Color options help guard against cross-contamination

FEATURES & BENEFITS

- Caps are designed to fit GL 45 threaded ware
- Autoclavable
- Solid top polypropylene
- A variety of cap colors available
- Red, high-temperature version made from PBT (polybutylene terephthalate)

Ordering information

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KIMBLE® KIMAX® CELL CULTURE FLASKS

APPLICATIONS

- Cultivation of microorganisms in nutrient media

FEATURES & BENEFITS

- KIMAX® flask has a thick-walled tubing neck with a plain fire-polished finish sealed to an Erlenmeyer-shaped body
- Autoclavable
- All flasks have durable white ceramic enamel scales to indicate approximate volumes at various levels
- Designed from ASTM Specification E1404, Type IV, Class I requirements
- Manufactured from 33 expansion, low extractable borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Ordering information

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KIMBLE® PASTEUR PIPETTES

APPLICATIONS

- One-time use in microbiological and serological laboratories
- Ideal for distributing aliquot quantities of liquid

FEATURES & BENEFITS

- Glass Pasteur pipettes with short or long drawn fine tip
- **Material:** Clear borosilicate glass 5.1, USP Type I neutral glass
- Pipettes conform to ISO 7712
- Inured to rapid temperature changes and chemical attack
- Very good chemical resistance to acidic and alkaline solutions
- Rubber teat, made from natural rubber, can be ordered separately



Ordering information

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KIMBLE® KIMAX® PETRI DISHES

APPLICATIONS

- Biological and clinical research, cultivation of microorganism
- Microscopy
- Storage

FEATURES & BENEFITS

- Remain clear after repeated wet or dry sterilization cycles
- Improved durability thru reinforced beaded edges
- Ceramic enamel marking spots on cover and bottom for intuitive use
- Serial dilution starting point indicator for workflow efficiency
- Low extractable 33 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class A requirements



Ordering information

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KIMBLE® SCREW THREAD CULTURE TUBES

APPLICATIONS

- Growing and storage of sterile cultures
- Culture of micro-organisms

FEATURES & BENEFITS

- Round-bottomed
- Manufactured from 51 expansion borosilicate glass conforming to USP Type I and ASTM E438, Type I, Class B requirements
- Autoclavable up to 121 °C
- Supplied without caps
- Chevron marking area
- Modular trays are shrink-wrapped in plastic film
- **Capacity:** 250ml & 500ml
- **Thread Sizes:** 13-415, 15-415, 18-415



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WHEATON® SPINNER FLASKS



WHEATON® Double Sidearm Celstir® Spinner Flask

- Adjustable paddle impeller and sterile design as stirrer shaft does not protrude through cap
- 1:1 headspace ratio for ideal gas exchange
- Bottom dimple to reduce cell aggregation (dimple on 125 mL and larger flasks)



WHEATON® Jacketed Double Sidearm Celstir® Spinner Flask

- Adjustable paddle impeller and sterile design as stirrer shaft does not protrude through cap
- 360° water jacket for precise temperature control
- Inlet and outlet hose barb connections for 0.25" (6.35 mm) ID tubing

APPLICATIONS

- For suspension cell culture with a magnetic stirrer

FEATURES & BENEFITS

- Replacement impellers, caps and flasks available
- **Material:** Autoclavable borosilicate glass that conforms to USP Type I and ASTM E 438 Type I, Class A requirements
- **Size range:** 25 mL to 8 L



WHEATON® Magna Flex™ Microcarrier Spinner Flask

- Designed for microcarrier cultures with a magnetic stirrer
- 1:1 headspace ratio for ideal gas exchange
- Gentle stirring action provided by a bulb-shaped glass impeller

PERFECT COMBINATION



SPINNER FLASKS
AND
MAGNETIC STIRRER

Ordering information

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BAR CODING & TARING by DWK Life Sciences



DWK Life Sciences can customize a bar code solution to meet any application. It is critical that bar codes are read correctly every time, remain adhered to the container and are durable enough to withstand severe environments.

Our premium services can provide you with pre-weighed containers meeting the highest expectations in convenience. Our taring services can ensure that the amount of material in the container will be accurately measured every time.

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Ordering Form

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Why partner with DWK Life Sciences?

✓ Convenience

- Increase productivity by freeing up time spent weighing and bar coding
- Reduce valuable lab space devoted to weighing and bar coding projects
- Sequence management ensures no duplicate bar codes

✓ Flexibility

- Custom alpha/numeric bar code sequencing available to fit your application
- Choice symbologies: Code 39 and 128, 2D Matrix Code, QR Code, Interleaved 2 of 5
- Materials: Pressure sensitive, ceramic or direct mark



WHEATON® CELL CULTURE BENCH-TOP SYSTEM

APPLICATIONS

- Cell culture or staining procedures
- Small scale and pilot applications

FEATURES & BENEFITS

- Speed is controlled using rotary button
- Deck kits available to double or triple capacity
- No digital display



Mini Bottle deck kit



Small Bottle deck kit



WHEATON® Bench-Top System – Mini Bottle

Mini Bottle system allows for use with serum and media bottles as well as culture tubes (4 positions per deck)

Specification – Bench-Top System – Mini Bottle	
Capacity	4-12 Positions
Bottle speed	2-45 RPM (dependent on bottle size)
Bottle diameter	38-60 mm
Bottle length	up to 240 mm
Weight	18 lb (8 kg)
Dimensions [W x D x H]	12.25 x 12.75 x 7.125" (32 x 32.5 x 18 cm)
Operating temperature	10 °C to 40 °C
Humidity	80% up to 31 °C
Electrical	100-240 VAC, 50/60 Hz, 14 W

WHEATON® Bench-Top System – Small Bottle

Small Bottle system for use with glass or plastic roller bottles (2 positions per deck)

Specification – Bench-Top System – Small Bottle	
Capacity	2-6 Positions
Bottle speed	0.1-3.8 RPM (110 mm diameter bottle)
Bottle diameter	75-121 mm
Bottle length	up to 290 mm
Weight	18 lb (8 kg)
Dimensions [W x D x H]	12.25 x 12.75 x 7.125" (32 x 32.5 x 18 cm)
Operating temperature	10 °C to 40 °C
Humidity	80% up to 31 °C
Electrical	100-240 VAC, 50/60 Hz, 14 W

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WHEATON® COMPLETEPAK™ READY-TO-USE VIALS AND CLOSURE

VACCINE WORKFLOW



RESEARCH & DEVELOPMENT

APPLICATIONS

- Drug discovery & research
- Stability studies
- Validation batch runs
- Pharma pilot batch fills
- Diagnostic kit reagents
- Compounding pharmaceuticals
- Aseptic filling of injectable drug products
- Freeze drying/lyophilized drug products
- Large and small molecule drug packaging

FEATURES & BENEFITS

- Sterilized, off-the-shelf, ready-to-use vial packaging system (clean – depyrogenated – sterile)
- Minimum 3 month shelf life from time of shipment
- 36 Kit combinations (vial + stopper + seal)
 - 2, 5, 10 mL serum vials in clear and amber
 - 3 stopper options: **Ultra Pure Serum Stopper**, **OmniFlex 3G Serum Stopper** or **OmniFlex 3G Igloo Lyo Stopper**
 - Flip seals in blue and red
- Complete manufacturing & certificate of analysis traceability
- **Certified according to:**
 - USP <788>/EP 2.9.19 Particulate Matter in Injections
 - USP <85>/EP 2.6.1 The Bacterial Endotoxins Test
 - USP <71>/EP 2.6.14 The Sterility Test
 - USP <660>/EP 3.2.1 Glass Containers for Pharmaceutical Use
 - USP <381>/EP 3.2.9 Elastomeric Closures used in Parenteral Preparations
- **CompletePAK Amber** for light sensitive content packaging

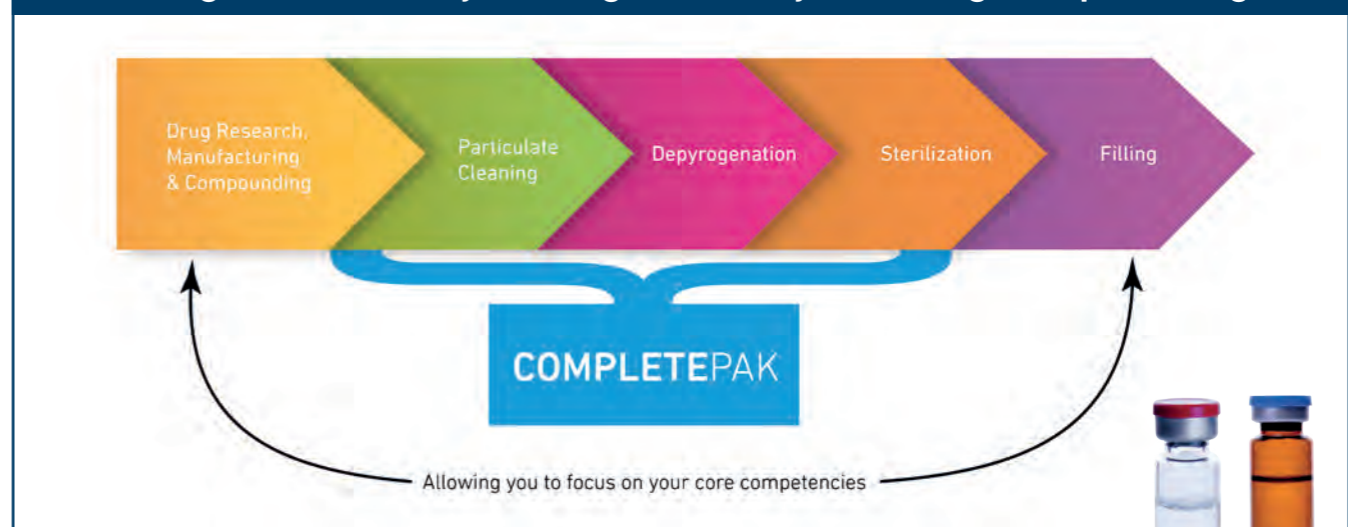


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Materials:

- **Vials** are designed for parenteral applications and manufactured from low extractable borosilicate glass
- All **stoppers** are manufactured from an ultrapure bromobutyl latex free formulation with extremely high chemical purity and low gas permeability
- **OmniFlex stoppers** offer low levels of residual binding to maximize extraction of active pharmaceutical ingredients
- **OmniFlex stopper** elasticity delivers a more effective barrier to optimize container closure integrity and content protection
- **Igloo lyophilized stoppers** are suited for biologics and content with sensitivities to silicon

Enhancing the efficiency of drug discovery and drug compounding





3

PRODUCTION & PACKAGING

- 28 WHEATON® Roller Bottles
- 28 WHEATON® Standard and R2P™ Roller
- 29 WHEATON® Standard and CO₂ Incubator
- 30 DURAN® PURE Bottles
- 31 WHEATON® Serum Vials and Bottles
- 31 WHEATON® DUALFUSION™ Vials
- 32 WHEATON® Premium Services
- 33 WHEATON® CCI

WHEATON® ROLLER BOTTLES

APPLICATIONS

- Adherent cell roller culture
- Vaccine production
- To use with WHEATON® Roller Apparatus

FEATURES & BENEFITS

- Specifically designed for adherent cell roller culture
- Reusable roller bottles
- Glass is specially selected for optical clarity, interior surface smoothness, and the absence of glass imperfections
- Withstands repeated wet or dry sterilization cycles
- **Material:** Borosilicate glass 3.3 that conforms to USP Type I and ASTM E-438 Type I, Class A requirements
- Autoclavable
- Available in different sizes and with different cap configurations



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WHEATON® STANDARD & R2P™ ROLLER APPARATUS

APPLICATIONS

- Cell culture
- Larger R&D facilities
- Large-scale vaccine production

FEATURES & BENEFITS

- Multiple decking and capacity configurations for high process flexibility
- Smooth ramping and digitally controlled rotation accurate to 0.01 RPM
- Top or bottom mount display for both roller apparatus available
- WHEATON® Standard Roller with bright LCD display
- WHEATON® R2P™ Roller with robust color touch screen

Specials of the R2P™ 2.0 System:

- Rotation alarm and temperature alarm ensures process conformity
- Capable of remote interface and monitoring through SCADA systems
- USB downloadable system event log for process documentation
- Readily recognized icons for intuitive navigation

Both roller apparatus are available in different sizes and with top or bottom mounted display.



Standard roller with LCD display



Top mount display



R2P™ 2.0 roller with touch screen



Ordering information Page 57 ▶

Specifications are listed on the ordering information page

WHEATON® STANDARD & CO₂ INCUBATOR

APPLICATIONS

- Cell cultivation
- Temperature dependent studies
- Larger R&D facilities
- Large-scale production
- To use with WHEATON® Roller Apparatus

FEATURES & BENEFITS

- Available as Standard or CO₂ Incubator
- **Compatible with:**
 - Production-spaced R2P™ 2.0 and Standard rollers with up to 11 decks
 - Modular-spaced R2P™ 2.0 and Standard rollers with up to 9 decks
 - Designed specifically for use with WHEATON® Roller Culture Apparatus
- Independent over-temperature safety protection
- Designed for temperature uniformity
- Large viewing window in the door with an option for dual windows
- Conforms to UL, CSA, and CE Standards
- Dry contact alarm port available for communicating alarm activation instances
- Internal electrical outlet for accessories
- USB port and analog 4-20 mA jack included for data logging temperature levels
- User configurable shelving system and roller apparatus guide tracks (shelving sold separately)

CO₂ Incubator only:

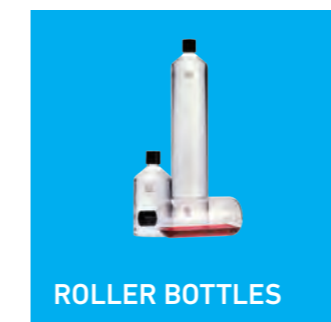
- Infrared sensor technology to maintain 0 to 20% CO₂ concentration
- Stainless steel interior



Ordering information Page 59 ▶

Specifications are listed on the ordering information page

PERFECT COMBINATION



DURAN® PURE BOTTLES THE API BOTTLE SYSTEM

APPLICATIONS

- GMP manufacturing of pharmaceutical drugs and biotech products
- Storage and transport of APIs, bulk drug intermediates, excipients and media

FEATURES & BENEFITS

- Broad size range from 25 mL - 20 L, clear glass and amber colored bottles
- Available bottle neck sizes GL 25, GL 45
- Protective cover prevents contamination during storage and transport
- DURAN® PURE screw caps: made from chemically and thermally resistant polymers, produced in clean rooms
- Single batch delivery
- Certificate of Analysis
- 100% traceability
- Change control
- Drug Master File
- **Material:** USP/EP Type I borosilicate glass

Protective cover



Premium Screw Caps
GL 25 and GL 45
made from PFA with
PTFE coated silicone seal



Premium Lip Seal Cap
GL 45
made from PFA



Ordering information Page 60 ▶



ESSENTIAL FOR
PHARMACEUTICAL
PRODUCTION



WHEATON® SERUM VIALS & BOTTLES*

APPLICATIONS

- Primary packaging
- Long-term sample storage
- Lyophilization (freeze drying)
- Diagnostic reagents & standards
- Chromatography

FEATURES & BENEFITS

- Specially designed bottom radius for lyophilization
- Crimp top finish (seal and stopper needed)
- **Material:**
 - Serum vials made from clear or amber tubular USP/EP Type I borosilicate glass for excellent clarity and dimensional consistency and lighter weight compared to molded bottles
 - Serum bottles made from clear or amber molded USP/EP Type I borosilicate glass
- **Sizes range:** 2 mL to 20 mL for tubing vials
- **Sizes range:** 2 mL to 125 mL for bottles



*Assorted stoppers and seals are also available

Ordering information Page 61 ▶

WHEATON® DUALFUSION™ VIALS

APPLICATIONS

- Vaccine Packaging
- Cold Storage
- Extreme pH Formulations
- High Potency & Toxic Substances

FEATURES & BENEFITS

- Alternative to glass Serum Vials
- Cyclic Olefin Polymer Shell with fused organosilicate protective layer
- 2R, 6R & 10R Nested Vials
- E-Beam sterilized to meet USP<788> and USP<85> for injectables
- Includes CoA

Closure Options:

- Aluminum Flip Cap Seals
- RayDyLyo Snap Caps
- Serum & Igloo Stoppers
- Coated and non-Coated



Ordering information Page 61 ▶

WHEATON® PREMIUM SERVICES



Particulate Cleaning

DWK Life Sciences can deliver primary packaging components and labware particulate cleaned and validated to meet the allowable particulate limits according to USP <788>. We use USP or WFI purified water, HEPA filtered and package items in certified class 100/10 cleanrooms.



Depyrogenation

DWK Life Sciences can deliver glass containers and accessories with endotoxin levels of less than 0.06 EU/mL with full documentation and certification. Our depyrogenation techniques include dry heat treatment to destroy the pyrogens and multiple WFI rinses to remove the pyrogens.



Sterilization

DWK Life Sciences can produce product to an acceptable Sterility Assurance Level (SAL). Typically a SAL of 10⁻⁶ is required; probability of a non-sterile unit is less than one in a million.



Siliconization

HydroSurface360™ is an silicone application of REACH compliant Dimethicone to the inner surface of the vial and designed to protect sensitive biologics, maximize extraction of viscous and protein-based content, and reduce surface fogging.



Custom Packaging

DWK Life Sciences can fulfill requests for customized pack outs. Our packaging engineers will develop the appropriate packaging to meet your specific needs each and every time with consistent dimensions. We can package product for large or small batch runs and shrink-wrap to your specifications.



- ✓ **Convenience**
 - All products come with full documentation and certification
 - Capable of processing glass and plastic products
- ✓ **Flexibility**
 - Capable of processing closures and components
 - Water for Injection (WFI) rinse or cleaning
 - USP purified water rinse

- ✓ **Convenience**
 - All products come with full documentation and certification
 - Save time and money processing product in-house
- ✓ **Flexibility**
 - Receive ready-to-sterilize product
 - Dry heat treatment or multiple WFI rinses
 - Capable of processing glass and rubber products

- ✓ **Convenience**
 - All products come with full documentation and certification
 - Receive ready-to-use product
- ✓ **Flexibility**
 - Single, double or triple autoclave bag options
 - Sterilization techniques for a range of different material compositions
 - Sterile foil wrap process

- ✓ **Convenience**
 - Minimize the interactions between the product and container
 - Higher restitution rate down to the last drop
- ✓ **Flexibility**
 - Lubricates and protects against alkalization
 - Silanization capabilities
 - Siliconization capabilities
 - Ammonium sulfate treatment capabilities

- ✓ **Convenience**
 - Engineering and design support
 - Custom packaging in a variety of configurations
 - Inventory management and drop shipment capabilities
- ✓ **Flexibility**
 - Individual or multi-unit clean room bags
 - Single or double bagged
 - Anti-static tray packed with shrink-wrap

*Capable of processing large or small volume containers

WHEATON® CONTAINER CLOSURE INTEGRITY (CCI)

VACCINE WORKFLOW



PRODUCTION & PACKAGING



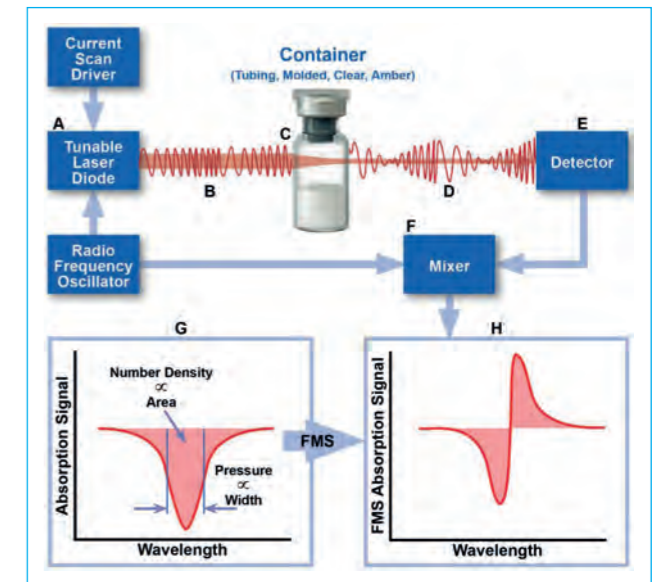
Working with proven packaging designs and materials can help eliminate some parenteral drug development pitfalls

Primary packaging components (i.e., glass and plastic vials, bottles, stoppers, aluminum seals, and snap caps) must be designed to ensure the long-term integrity of injectable content. In addition, as use of lyophilized formulations increases, so does the need to maintain an inert headspace or reduced pressure within the container to aid product reconstitution. Primary packaging failure can be traced to material composition and conformational defects and incompatibilities between the primary package components.

Methodology

DWK tubular vials having a 13mm & 20mm serum finish were affixed with serum & igloo stoppers and sealed with Al seals & Snap Caps. Each undergo headspace leak-detection studies to assess the integrity of ready-to-use primary packaging to demonstrate system compatibility.

The FMS Carbon Dioxide analyzer (whose mode of operation is sketched to the right) employs table diode laser absorption spectroscopy (TDLAS) to provide rapid and non-invasive gas analysis of the headspace within sealed containers. The FMS-Carbon Dioxide Headspace Analyzer operates on the principles of frequency modulation spectroscopy (FMS) employing a diode laser that has been tuned to match a specific transition energy of the carbon dioxide molecule.



Product Details

Achieving container closure integrity assumes the use of vials, stoppers, and seals that are free from dimensional defects and conform to harmonized finished dimensions. For serum vials used for parenteral applications, 13mm and 20mm are typical finish dimensions associated with single and multidose vial capacities. Vials are typically tubular or molded Type I 33 or 51 expansion. More recently, interest in glass alternatives constructed of Cyclic Olefin Polymers and as such inclusion in DWK CCI studies. Stoppers are typically made of Chlorobutyl or Bromobutyl elastomers with and without coatings. Seals are typically made of aluminum and must have enough skirt to enough to wrap the vial flange. Polypropylene Snap Caps are an alternative to aluminum seals and are pre-assemble with the desired elastomer stopper.

Vials	Stoppers	Seals
Type I 33 GPI	13 mm & 20 mm	13 mm & 20 mm
Cyclic Olefin Polymer	Chlorobutyl & Bromobutyl	Aluminum Seal
13 & 20mm Serum Finish	Siliconized & Fluoropolymer Coated	Polypropylene Snap Cap

Results

All vial configurations measured low levels (<2 torr) of headspace carbon dioxide content consistent with atmospheric conditions at the T0 timepoint. At the T1 timepoint, all intact vials measured low levels (<2 torr) and showed no measurable increase from the T0 timepoint. The positive controls showed a large increase to 575 torr headspace carbon dioxide at the T1 timepoint, confirming the method is capable of detecting defective vials stored in a carbon-dioxide enriched environment.

ORDERING INFORMATION

SAMPLE COLLECTION & DIAGNOSTICS

1

- 36 WHEATON® MicroLiter® Sample Plates
- 44 SOCOREX® Micropipette & Qualitix® Tips
- 37 WHEATON® Centrifuge Tubes
- 37 AZLON® Wash Bottles
- 38 WHEATON® Dropping Bottles
- 44 KIMBLE® Disposable Culture Tubes
- 37 WHEATON® Plastic Pasteur Pipettes

RESEARCH & DEVELOPMENT

2

- 45 WHEATON® CELLine™ Bioreactor Flask
- 45 WHEATON® Serological Pipettes
- 46 WHEATON® PIPET-PAL™ Controller
- 46 WHEATON® CryoELITE® Cryogenic Vials
- 47 WHEATON® CryoELITE® Tissues Vials
- 48 KIMBLE® KIMAX® Baffled Flask
- 48 WHEATON® PETG Media Bottles
- 49 KIMBLE® KIMAX® GL45 Media Bottles & Caps
- 50 KIMBLE® KIMAX® Culture Flask
- 50 KIMBLE® Pasteur Pipettes
- 51 KIMBLE® KIMAX® Petri Dishes
- 51 KIMBLE® Screw Thread Culture Tubes
- 50 WHEATON® Spinner Flasks
- 54 WHEATON® Bench-Top System
- 54 WHEATON® CompletePAK™

PRODUCTION & PACKAGING

3

- 56 WHEATON® Roller Bottles
- 57 WHEATON® Standard and R2P™ Roller
- 59 WHEATON® Standard and CO₂ Incubator
- 60 DURAN® PURE Bottles
- 61 WHEATON® Serum Vials and Bottles
- 61 WHEATON® DUALFUSION™ Vials

ORDERING INFORMATION SAMPLE COLLECTION & DIAGNOSTICS



WHEATON® MICROLITER® SAMPLE PLATES

Description	Insert Size	Mat Color	Glass Color	Pack Qty	Fisher Scientific Cat. No.
MicroLiter Plate Sampling System™ Kit	150µL	Blue	Clear	1	02000297
	350µL	Blue	Clear	1	02000383
	350µL	Blue	Clear	1	02000384
	500µL	Blue	Clear	1	02000520
	500µL	Blue	Clear	1	02000521
	700µL	Blue	Amber	1	02000713
	1.0 mL	Blue	Clear	1	02000711
	1.2 mL	Blue	Clear	1	02000712
	2.2 mL	Blue	Clear	1	02000714

WHEATON® CENTRIFUGE TUBES

Description	Capacity [mL]	Diameter x height [mm]	Cap material	Sterile	Tube material	Inner Pack Qty	Pack Qty	Fisher Scientific Cat. No.
Centrifuge tube with conical bottom, graduated, bagged	15	17 x 121	HDPE	EtO	Polypropylene	50	500	15112202
Centrifuge tube with conical bottom, graduated, bagged	50	29 x 115	HDPE	EtO	Polypropylene	25	500	15112201
Centrifuge tube with conical bottom, self-standing, bagged	50	29 x 115	HDPE	EtO	Polypropylene	25	500	15112203

AZLON® WASH BOTTLES

Description	Capacity [mL]	Printing label	Material	Pack Qty	Fisher Scientific Cat. No.
AZLON® MULTI-LINGUAL SAFETY VENTING WASH BOTTLE					
Multi-lingual safety venting wash bottle	250	Ethanol	LDPE	5	03406101
Multi-lingual safety venting wash bottle	500	Ethanol	LDPE	5	03406106

WHEATON® PLASTIC PASTEUR PIPETTES

Description	Capacity [mL]	Sterile	Inner Pack Qty	Pack Qty	Fisher Scientific Cat. No.
1 mL graduated pasteur pipette	5	No	500	3000	15112204
3 mL graduated pasteur pipette	7	No	500	3000	15112205
Jumbo pasteur pipette	23	No	100	600	15112206

WHEATON® DROPPING BOTTLES

Description	Bottle Color	Capacity [mL]	Diameter x Height [mm]	Cap size	Material	Inner Pack Qty	Pack Qty	DWK Cat. No.
WHEATON® DROPPING BOTTLE, NATURAL, WITH TIP & CAP								
Dropping bottle with natural tip & natural cap	Natural	7	19 x 63	15-415	LDPE	12	144	211603
Dropping bottle with natural tip & natural cap	Natural	15	25 x 78	15-415	LDPE	12	144	211604
Dropping bottle with natural tip & natural cap	Natural	30	32 x 85	20-410	LDPE	12	144	211605
Dropping bottle with natural tip & natural cap	Natural	60	39 x 101	20-410	LDPE	12	144	211606
Dropping bottle with natural tip & natural cap	Natural	125	47 x 125	20-410	LDPE	6	72	W211607

Packaging details: Bottles, tips and caps are packaged separately

WHEATON® DROPPING BOTTLE, WITH TIP & CAP								
Dropping bottle with natural tip & white cap	Natural	3	14 x 49	8-425	LDPE	12	144	211630
Dropping bottle with natural tip & white cap	White	3	14 x 49	8-425	LDPE	12	144	211620
Dropping bottle with natural tip & white cap	Natural	6	17 x 58	13-425	LDPE	12	144	211631
Dropping bottle with natural tip & white cap	White	6	17 x 58	13-425	LDPE	12	144	211621
Dropping bottle with natural tip & white cap	Natural	7	19 x 63	15-415	LDPE	12	144	211632
Dropping bottle with natural tip & white cap	White	7	19 x 63	15-415	LDPE	12	144	211622
Dropping bottle with natural tip & white cap	Natural	15	25 x 78	15-415	LDPE	12	144	211633
Dropping bottle with natural tip & white cap	White	15	25 x 78	15-415	LDPE	12	144	211623
Dropping bottle with natural tip & white cap	Natural	30	32 x 85	20-410	LDPE	12	144	211634
Dropping bottle with natural tip & white cap	White	30	32 x 85	20-410	LDPE	12	144	211624
Dropping bottle with natural tip & white cap	Natural	60	39 x 101	20-410	LDPE	12	144	211635
Dropping bottle with natural tip & white cap	White	60	39 x 101	20-410	LDPE	12	144	211625
Dropping bottle with natural tip & white cap	Natural	125	47 x 125	20-410	LDPE	6	72	W211636
Dropping bottle with natural tip & white cap	White	125	47 x 125	20-410	LDPE	6	72	W211626

Packaging details: Bottles, tips and caps are packaged separately

Dropper Bottle, Tip, and Cap portfolio is available for sale through the Fisher Scientific channel upon request. Please contact Fisher Scientific Customer Service to request pricing.

Description	Bottle Color	Capacity [mL]	Diameter x Height [mm]	Cap size	Material	Pack Qty	DWK Cat. No.
WHEATON® DROPPING BOTTLE ONLY							
Dropping bottle	Natural	3	14 x 39	8-425	LDPE	100	W242821
Dropping bottle, pack of 1000	Natural	3	14 x 39	8-425	LDPE	1000	W242821-A
Dropping bottle	White	3	14 x 39	8-425	LDPE	100	W242831
Dropping bottle, pack of 1000	White	3	14 x 39	8-425	LDPE	1000	W242831-A
Dropping bottle	Natural	6	18 x 42	13-425	LDPE	100	W242822
Dropping bottle, pack of 1000	Natural	6	18 x 42	13-425	LDPE	1000	W242822-A
Dropping bottle	White	6	18 x 42	13-425	LDPE	100	W242832
Dropping bottle, pack of 1000	White	6	18 x 42	13-425	LDPE	1000	W242832-A
Dropping bottle	Natural	7	19 x 51	15-415	LDPE	100	W242823
Dropping bottle, pack of 1000	Natural	7	19 x 51	15-415	LDPE	1000	W242823-A
Dropping bottle	White	7	19 x 51	15-415	LDPE	100	W242833
Dropping bottle, pack of 1000	White	7	19 x 51	15-415	LDPE	1000	W242833-A
Dropping bottle	Natural	10	25 x 46	15-415	LDPE	100	W242824
Dropping bottle, pack of 1000	Natural	10	25 x 46	15-415	LDPE	1000	W242824-A
Dropping bottle	White	10	25 x 46	15-415	LDPE	100	W242834
Dropping bottle, pack of 1000	White	10	25 x 46	15-415	LDPE	1000	W242834-A
Dropping bottle	Natural	15	25 x 66	15-415	LDPE	100	W242825
Dropping bottle, pack of 1000	Natural	15	25 x 66	15-415	LDPE	1000	W242825-A
Dropping bottle	White	15	25 x 66	15-415	LDPE	100	W242835
Dropping bottle, pack of 1000	White	15	25 x 66	15-415	LDPE	1000	W242835-A
Dropping bottle	Natural	30	32 x 70	20-410	LDPE	100	W242826
Dropping bottle, pack of 1000	Natural	30	32 x 70	20-410	LDPE	1000	W242826-A
Dropping bottle	White	30	32 x 70	20-410	LDPE	100	W242836
Dropping bottle, pack of 1000	White	30	32 x 70	20-410	LDPE	1000	W242836-A
Dropping bottle	Natural	60	39 x 85	20-410	LDPE	100	W242827
Dropping bottle	White	60	39 x 85	20-410	LDPE	100	W242837
Dropping bottle	Natural	125	47 x 108	20-410	LDPE	100	W242829
Dropping bottle	White	125	47 x 108	20-410	LDPE	100	W242839

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WHEATON® DROPPER TIP FOR DROPPING BOTTLES

CONTINUED

Description	Tip Color	Tip size [mm]	Material	Pack Qty	DWK Cat. No.
WHEATON® EXTENDED CONTROLLED DROPPER TIP					
extended controlled dropper tip	Natural	8	LDPE	100	242401-01
	Pink	8	LDPE	100	242401
	Red	8	LDPE	100	242402
	Orange	8	LDPE	100	242403
	Blue	8	LDPE	100	242404
	Gray	8	LDPE	100	242405
	Green	8	LDPE	100	242406
	Purple	8	LDPE	100	242407
	Yellow	8	LDPE	100	242408
	White	8	LDPE	100	242410
	extended controlled dropper tip, pack of 1000	Natural	8	LDPE	1000
Pink		8	LDPE	1000	242401-A
Red		8	LDPE	1000	242402-A
Orange		8	LDPE	1000	242403-A
Blue		8	LDPE	1000	242404-A
Gray		8	LDPE	1000	242405-A
Green		8	LDPE	1000	242406-A
Purple		8	LDPE	1000	242407-A
Yellow		8	LDPE	1000	242408-A
White		8	LDPE	1000	242410-A
extended controlled dropper tip		Natural	13	LDPE	100
	Pink	13	LDPE	100	242411
	Red	13	LDPE	100	242412
	Orange	13	LDPE	100	242413
	Blue	13	LDPE	100	242414
	Gray	13	LDPE	100	242415
	Green	13	LDPE	100	242416
	Purple	13	LDPE	100	242417
	Yellow	13	LDPE	100	242418
	White	13	LDPE	100	242420
	extended controlled dropper tip, pack of 1000	Natural	13	LDPE	1000
Pink		13	LDPE	1000	242411-A
Red		13	LDPE	1000	242412-A
Orange		13	LDPE	1000	242413-A
Blue		13	LDPE	1000	242414-A
Gray		13	LDPE	1000	242415-A
Green		13	LDPE	1000	242416-A
Purple		13	LDPE	1000	242417-A
Yellow		13	LDPE	1000	242418-A
White		13	LDPE	1000	242420-A

Dropper Bottle, Tip, and Cap portfolio is available for sale through the Fisher Scientific channel upon request. Please contact Fisher Scientific Customer Service to request pricing.

Description	Tip Color	Tip size [mm]	Material	Pack Qty	DWK Cat. No.	
extended controlled dropper tip	Natural	15	LDPE	100	242421-01	
	Pink	15	LDPE	100	242421	
	Red	15	LDPE	100	242422	
	Orange	15	LDPE	100	242423	
	Blue	15	LDPE	100	242424	
	Gray	15	LDPE	100	242425	
	Green	15	LDPE	100	242426	
	Purple	15	LDPE	100	242427	
	Yellow	15	LDPE	100	242428	
	White	15	LDPE	100	242430	
	extended controlled dropper tip, pack of 1000	Natural	15	LDPE	1000	242421-01-A
Pink		15	LDPE	1000	242421-A	
Red		15	LDPE	1000	242422-A	
Orange		15	LDPE	1000	242423-A	
Blue		15	LDPE	1000	242424-A	
Gray		15	LDPE	1000	242425-A	
Green		15	LDPE	1000	242426-A	
Purple		15	LDPE	1000	242427-A	
Yellow		15	LDPE	1000	242428-A	
White		15	LDPE	1000	242430-A	
extended controlled dropper tip		Natural	20	LDPE	100	242431-01
	Pink	20	LDPE	100	242431	
	Red	20	LDPE	100	242432	
	Orange	20	LDPE	100	242433	
	Blue	20	LDPE	100	242434	
	Green	20	LDPE	100	242436	
	Purple	20	LDPE	100	242437	
	Yellow	20	LDPE	100	242438	
	White	20	LDPE	100	242440	
	extended controlled dropper tip, pack of 1000	Natural	20	LDPE	1000	242431-01-A
		Pink	20	LDPE	1000	242431-A
Red		20	LDPE	1000	242432-A	
Orange		20	LDPE	1000	242433-A	
Blue		20	LDPE	1000	242434-A	
Green		20	LDPE	1000	242436-A	
Purple		20	LDPE	1000	242437-A	
Yellow		20	LDPE	1000	242438-A	
White		20	LDPE	1000	242440-A	

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WHEATON® DROPPER TIP CAP FOR DROPPING BOTTLES

CONTINUED

Description	Cap Color	Cap size	Material	Pack Qty	DWK Cat. No.
WHEATON® DROPPER TIP CAP					
Dropper tip cap	Natural	8-425	Radiation grade polypropylene	100	242401-01
	Pink	8-425	Radiation grade polypropylene	100	242401
	Red	8-425	Radiation grade polypropylene	100	242402
	Orange	8-425	Radiation grade polypropylene	100	242403
	Blue	8-425	Radiation grade polypropylene	100	242404
	Gray	8-425	Radiation grade polypropylene	100	242405
	Green	8-425	Radiation grade polypropylene	100	242406
	Purple	8-425	Radiation grade polypropylene	100	242407
	Yellow	8-425	Radiation grade polypropylene	100	242408
	White	8-425	Radiation grade polypropylene	100	242410
	Dropper tip cap, pack of 1000	Natural	8-425	Radiation grade polypropylene	1000
Pink		8-425	Radiation grade polypropylene	1000	242501-A
Red		8-425	Radiation grade polypropylene	1000	242502-A
Orange		8-425	Radiation grade polypropylene	1000	242503-A
Blue		8-425	Radiation grade polypropylene	1000	242504-A
Gray		8-425	Radiation grade polypropylene	1000	242505-A
Green		8-425	Radiation grade polypropylene	1000	242506-A
Purple		8-425	Radiation grade polypropylene	1000	242507-A
Yellow		8-425	Radiation grade polypropylene	1000	242508-A
White		8-425	Radiation grade polypropylene	1000	242510-A
Dropper tip cap		Natural	13-425	Radiation grade polypropylene	100
	Pink	13-425	Radiation grade polypropylene	100	242531
	Red	13-425	Radiation grade polypropylene	100	242532
	Orange	13-425	Radiation grade polypropylene	100	242533
	Blue	13-425	Radiation grade polypropylene	100	242534
	Gray	13-425	Radiation grade polypropylene	100	242535
	Green	13-425	Radiation grade polypropylene	100	242536
	Purple	13-425	Radiation grade polypropylene	100	242537
	Yellow	13-425	Radiation grade polypropylene	100	242538
	White	13-425	Radiation grade polypropylene	100	242540
	Dropper tip cap, pack of 1000	Natural	13-425	Radiation grade polypropylene	1000
Pink		13-425	Radiation grade polypropylene	1000	242531-A
Red		13-425	Radiation grade polypropylene	1000	242532-A
Orange		13-425	Radiation grade polypropylene	1000	242533-A
Blue		13-425	Radiation grade polypropylene	1000	242534-A
Gray		13-425	Radiation grade polypropylene	1000	242535-A
Green		13-425	Radiation grade polypropylene	1000	242536-A
Purple		13-425	Radiation grade polypropylene	1000	242537-A
Yellow		13-425	Radiation grade polypropylene	1000	242538-A
White		13-425	Radiation grade polypropylene	1000	242540-A

Dropper Bottle, Tip, and Cap portfolio is available for sale through the Fisher Scientific channel upon request. Please contact Fisher Scientific Customer Service to request pricing.

Description	Cap Color	Cap size	Material	Pack Qty	DWK Cat. No.
Dropper tip cap	Natural	15-415	Radiation grade polypropylene	100	242511-01
	Pink	15-415	Radiation grade polypropylene	100	242511
	Red	15-415	Radiation grade polypropylene	100	242512
	Orange	15-415	Radiation grade polypropylene	100	242513
	Blue	15-415	Radiation grade polypropylene	100	242514
	Gray	15-415	Radiation grade polypropylene	100	242515
	Green	15-415	Radiation grade polypropylene	100	242516
	Purple	15-415	Radiation grade polypropylene	100	242517
	Yellow	15-415	Radiation grade polypropylene	100	242518
	White	15-415	Radiation grade polypropylene	100	242520
	Dropper tip cap, pack of 1000	Natural	15-415	Radiation grade polypropylene	1000
Pink		15-415	Radiation grade polypropylene	1000	242511-A
Red		15-415	Radiation grade polypropylene	1000	242512-A
Orange		15-415	Radiation grade polypropylene	1000	242513-A
Blue		15-415	Radiation grade polypropylene	1000	242514-A
Gray		15-415	Radiation grade polypropylene	1000	242515-A
Green		15-415	Radiation grade polypropylene	1000	242516-A
Purple		15-415	Radiation grade polypropylene	1000	242517-A
Yellow		15-415	Radiation grade polypropylene	1000	242518-A
White		15-415	Radiation grade polypropylene	1000	242520-A
Dropper tip cap		Natural	20-410	Radiation grade polypropylene	100
	Pink	20-410	Radiation grade polypropylene	100	242521
	Red	20-410	Radiation grade polypropylene	100	242522
	Orange	20-410	Radiation grade polypropylene	100	242523
	Blue	20-410	Radiation grade polypropylene	100	242524
	Gray	20-410	Radiation grade polypropylene	100	242525
	Green	20-410	Radiation grade polypropylene	100	242526
	Purple	20-410	Radiation grade polypropylene	100	242527
	Yellow	20-410	Radiation grade polypropylene	100	242528
	White	20-410	Radiation grade polypropylene	100	242530
	Dropper tip cap, pack of 1000	Natural	20-410	Radiation grade polypropylene	1000
Pink		20-410	Radiation grade polypropylene	1000	242521-A
Red		20-410	Radiation grade polypropylene	1000	242522-A
Orange		20-410	Radiation grade polypropylene	1000	242523-A
Blue		20-410	Radiation grade polypropylene	1000	242524-A
Gray		20-410	Radiation grade polypropylene	1000	242525-A
Green		20-410	Radiation grade polypropylene	1000	242526-A
Purple		20-410	Radiation grade polypropylene	1000	242527-A
Yellow		20-410	Radiation grade polypropylene	1000	242528-A
White		20-410	Radiation grade polypropylene	1000	242530-A

SAMPLE COLLECTION & DIAGNOSTICS

1

KIMBLE® DISPOSABLE CULTURE TUBES

Description	Overflow Capacity (mL)	OD (mm)	Length (mm)	Shelf Pack Qty	Fisher Scientific Cat. No.
Disposable culture tube 1 mL	1	6	50	100	1495790E
Disposable culture tube 4 mL	4	10	75	250	033410
Disposable culture tube 6 mL	6	12	75	250	033411
Disposable culture tube 10 mL	10	13	100	250	033413
Disposable culture tube 11 mL	11	15	85	250	12141542
Disposable culture tube 13 mL	13	16	85	250	12141543
Disposable culture tube 15 mL	15	16	100	250	033414
Disposable culture tube 19 mL	19	16	125	250	033415
Disposable culture tube 23 mL	23	16	150	250	033416
Disposable culture tube 28.5 mL	28.5	18	150	250	1495796J
Disposable culture tube 36 mL	36	20	150	250	1495796K
Disposable culture tube 55 mL	55	25	150	125	22037567

SOCOREX® PIPETTES & QUALITIX® TIPS

SOCOREX® MANUAL PIPETTES						
Description	Volume	Division	Min. Vol.	Mid. Vol.	Max. Vol.	Fisher Scientific Cat. No.
Acura 825	0.1 - 2µL	0.002µL	< ± 6.0 %	< ± 4.0 %	< ± 2.0 %	1370932
	0.5 - 10µL	0.01µL	< ± 2.5 %	< ± 1.8 %	< ± 1.0	1370933
	1 - 10µL	0.01µL	< ± 2.5 %	< ± 1.8 %	< ± 1.0 %	1370934
	2 - 20µL	0.02µL	< ± 2.5 %	< ± 1.8 %	< ± 1.0 %	1370935
Acura 826	0.1 - 2µL	0.002µL	< ± 6.0 %	< ± 4.0 %	< ± 2.0 %	13709401
	0.5 - 10µL	0.01µL	< ± 2.5 %	< ± 1.8 %	< ± 1.0 %	13709402
	1 - 10µL	0.01µL	< ± 2.5 %	< ± 1.8 %	< ± 1.0 %	13709403
	2 - 20µL	0.02µL	< ± 2.5 %	< ± 1.8 %	< ± 1.0 %	13709404
Acura 835	0.2 - 2mL	0.002mL	< ± 1.5 %	< ± 1.0 %	< ± 0.5 %	13710909
	0.5 - 5mL	0.01mL	< ± 1.5 %	< ± 1.1 %	< ± 0.6 %	1370940
	1 - 10mL	0.01mL	< ± 1.5 %	< ± 0.7 %	< ± 0.5 %	1370941

SOCOREX® QUALITIX® TIPS				
Description	Sterile	Packaging	Case Qty	Fisher Scientific Cat. No.
10 µL ultra-microtips, fine pointed, graduated	Yes	12x96 / rack	1,152 tips	12141505
20 µL filter tips, low binding, bevel point	Yes	10x96 / rack	960 tips	12141509
100 µL filter tips, low binding, bevel point	Yes	10x96 / rack	960 tips	12141510
200 µL universal tips, low binding, graduated, autoclavable	No	10x96 / rack	960 tips	12141526
200 µL universal tips, low binding, graduated, autoclavable	Yes	10x96 / rack	960 tips	12141527
300 µL filter tips	No	10x96 / rack	960 tips	12141518
1000 µL universal tips, low binding, fine pointed, autoclavable	No	6x96 / rack	576 tips	12141528
1000 µL ultra-microtips, low binding, fine pointed, autoclavable	Yes	6x96 / rack	576 tips	12141529

ORDERING INFORMATION RESEARCH & DEVELOPMENT

2

WHEATON® CELLINE™ BIOREACTOR FLASK

Description	Culture type	Media compartment size [mL]	Cell compartment size [mL]	Pack Qty	Fisher Scientific Cat. No.
CELLLine 350	Suspension	350	5	1	02912746
CELLLine 350	Suspension	350	5	5	02912743
CELLLine 1000	Suspension	1000	15	1	02912744
CELLLine 1000	Suspension	1000	15	3	02912741
CELLLine 1000-AD	Adherent	1000	15	1	02912745
CELLLine 1000-AD	Adherent	1000	15	3	02912742

WHEATON® SEROLOGICAL PIPETTES

Description	Color	Capacity [mL]	Graduation intervals [mL]	Negative graduations [mL]	Inner Pack Qty	Pack Qty	Fisher Scientific Cat. No.
Individually wrapped – Sterile serological pipettes in easy open paper/plastic peel packaging	Red	1	0.1	0.3	200	1000	1367441
	Yellow	1	0.01	0.3	200	1000	1367441A
	White	2	0.01	0.3	125	500	1367441B
	Blue	5	0.1	2	50	200	1367441C
	Orange	10	0.1	3	50	200	1367441D
	Green	25	0.2	10	50	200	1367441E
	Purple	50	0.5	10	25	100	1367441F
Multipack – Sterile serological pipettes packed in plastic bag	Red	1	0.1	0.3	25	1000	1367440
	Yellow	1	0.01	0.3	25	1000	1367440A
	White	2	0.01	0.3	25	500	1367440B
	Blue	5	0.1	2	25	500	1367440C
	Orange	10	0.1	3	25	500	1367440D
	Orange wide tip	10	0.1	3	25	500	1367445
	Green	25	0.2	10	10	200	1367440E
	Purple	50	0.5	10	10	100	1367440F
	Yellow	1	0.01	0.3	50	500	1367444A
	White	2	0.01	0.3	50	500	1367444B
	Blue	5	0.1	2	50	500	1367444C
	Orange	10	0.1	3	50	500	1367444D

Description	Height x Width x Depth [cm]	Material	Pack Qty	Fisher Scientific Cat. No.
Pipette Rack for Serological Pipettes	41 x 9 x 29	Heavy-duty clear-view acrylic	1	13678260

WHEATON® PIPET-PAL™ CONTROLLER

Description	Pack Qty	Fisher Scientific Cat. No.
PIPET-PAL controller, translucent blue	1	13707100
PIPET-PAL wall mount	1	15112185
Replacement PTFE filters, 0.45 µm, non-sterile	10	15112184
Replacement PTFE filters, 0.45 µm, sterile	10	15112183
Replacement PTFE filters, 0.20 µm, non-sterile	10	15112186
Replacement PTFE filters, 0.20 µm, sterile	10	15112187

WHEATON® CRYOELITE® CRYOGENIC VIALS*

Description	Capacity [mL]	Cap color	Diameter x height [mm]	Writing patch	Sterile	Pack Qty	Fisher Scientific Cat. No.	
WHEATON® CRYOELITE® CRYOGENIC VIALS – FREESTANDING								
internal thread	1.2	Natural	12 x 40	Yes	Yes	500	02912710	
	2	Natural	12 x 50	Yes	No	1000	02912703	
	2	Natural	12 x 50	No	No	1000	02912704	
	2	Natural	12 x 50	Yes	Yes	500	02912717	
	2	White	12 x 50	Yes	Yes	500	02912711	
	2	Red	12 x 50	Yes	Yes	500	02912712	
	2	Pink	12 x 50	Yes	Yes	500	02912713	
	2	Yellow	12 x 50	Yes	Yes	500	02912714	
	2	Green	12 x 50	Yes	Yes	500	02912715	
	2	Blue	12 x 50	Yes	Yes	500	02912716	
	3	Natural	12 x 63	Yes	Yes	500	02912718	
	4	Natural	12 x 77	Yes	Yes	500	02912719	
	5	Natural	12 x 91	Yes	Yes	500	02912720	
	external thread	0.5	White	12 x 49	Yes	Yes	500	03411400
		1.2	Natural	12 x 37	Yes	Yes	500	02912727
1.2		White	12 x 37	Yes	Yes	500	15112190	
1.2		Red	12 x 37	Yes	Yes	500	15112191	
1.2		Pink	12 x 37	Yes	Yes	500	15112192	
1.2		Yellow	12 x 37	Yes	Yes	500	15112193	
1.2		Green	12 x 37	Yes	Yes	500	15112194	
1.2		Blue	12 x 37	Yes	Yes	500	15112195	
2		Natural	12 x 49	Yes	Yes	1000	02912723	
2		Natural	12 x 49	No	No	1000	02912724	
2		Natural	12 x 49	Yes	Yes	500	02912737	
2		White	12 x 49	Yes	Yes	500	02912728	
2		Red	12 x 49	Yes	Yes	500	02912729	
2		Pink	12 x 49	Yes	Yes	500	02912730	
2		Yellow	12 x 49	Yes	Yes	500	02912731	
2	Green	12 x 49	Yes	Yes	500	02912732		

Description	Capacity [mL]	Cap color	Diameter x height [mm]	Writing patch	Sterile	Pack Qty	Fisher Scientific Cat. No.
external thread	2	Blue	12 x 49	Yes	Yes	500	02912733
	3	Natural	12 x 63	Yes	Yes	500	02912734
	4	Natural	12 x 78	Yes	Yes	500	02912735
	5	Natural	12 x 93	Yes	Yes	500	02912736

WHEATON® CRYOELITE® CRYOGENIC VIALS – ROUND BOTTOM

internal thread	1.2	Natural	12 x 39	Yes	Yes	500	02912705	
	2	Natural	12 x 49	Yes	Yes	500	02912706	
	2	Natural	12 x 49	Yes	No	1000	15112196	
	2	Natural	12 x 49	No	No	1000	02912702	
	3	Natural	12 x 63	Yes	Yes	500	02912707	
	4	Natural	12 x 76	Yes	Yes	500	02912708	
	5	Natural	12 x 90	Yes	Yes	500	02912709	
	external thread	1.2	Natural	12 x 35	Yes	Yes	500	02912725
		2	Natural	12 x 49	Yes	Yes	500	02912726
2		Natural	12 x 49	Yes	No	1000	02912721	
2		Natural	12 x 49	No	No	1000	02912722	

WHEATON® CRYOELITE® CRYOGENIC VIALS – SHELF PACKS

2	White	12 x 49	Yes	Yes	100	03410051
2	Red	12 x 49	Yes	Yes	100	03410052
2	Pink	12 x 49	Yes	Yes	100	03410053
2	Yellow	12 x 49	Yes	Yes	100	03410054
2	Green	12 x 49	Yes	Yes	100	03410055
2	Blue	12 x 49	Yes	Yes	100	03410056
2	Natural	12 x 49	Yes	Yes	100	03410050

* for Barcoding solutions please see <https://www.dwk.com/wheaton-cryoelite-2d-data-matrix-barcode-bottom-inserts>

WHEATON® CRYOELITE® TISSUES VIALS

Description	Capacity [mL]	Cap color	Diameter x height [mm]	Sterile	Pack Qty	Fisher Scientific Cat. No.
CryoELITE® Tissue Vial	5	White	22 x 24	Yes	250	13709140

KIMBLE® KIMAX® BAFFLED FLASKS

Description	Capacity (mL)	Bottom OD (mm)	Neck OD (mm)	Height (mm)	Case Qty	Fisher Scientific Cat. No.
KIMAX® Baffled Flasks	125	66	25	125	6	101406
	260	82	38	142	6	101406A
	500	102	38	183	6	101406B
	1000	128	38	230	6	101406C
	2000	161	38	288	6	101406D

WHEATON® PETG MEDIA BOTTLES

Description	Cap style	Capacity [mL]	Closure size	Diameter [mm]	Height [mm]	Height with cap on [mm]	Pack Qty	Fisher Scientific Cat. No.
WHEATON® PETG Media Bottles	Tamper evident cap	30	20-415	38	60	62.1	24	02924970
	Standard cap	30	20-415	38	60	62.1	24	15112119
	Tamper evident cap	60	24-415	40	80	83.1	24	02924971
	Standard cap	60	24-415	40	80	83.1	24	12141544
	Tamper evident cap	125	38-430	54.4	103.7	109.4	24	02924972
	Standard cap	125	38-430	54.4	103.7	109.4	24	12141545
	Tamper evident cap	250	38-430	59	139	144.7	24	02924973
	Standard cap	250	38-430	59	139	144.7	24	02924974
	Tamper evident cap	500	38-430	73	172	177.7	12	02924975
	Standard cap	500	38-430	73	172	177.7	12	12141546
	Tamper evident cap	1000	38-430	92	213	218.7	12	02924976
	Standard cap	1000	38-430	92	213	218.7	12	02924977
	Tamper evident cap	2000	53B	115	266	271.2	6	02924978
	Standard cap	2000	53B	115	266	271.2	6	02924979

KIMBLE® KIMAX® GL45 MEDIA BOTTLES

Description	Capacity (mL)	OD (mm)	Height (mm)	Graduation Intervals (mL)	Graduation Range (mL)	Case Qty	Fisher Scientific Cat. No.
KIMAX® GL45 Media Bottles	100	56	100	10	20-80	10	02542A
	250	70	138	25	50-200	10	02542B
	500	86	176	50	100-400	10	02542C
	1000	101	225	50	100-900	10	02542D
	2000	136	260	100	400-1800	4	02542E
	5000	181	330	250	1000-4000	1	0642130
	10000	227	410	500	2000-8000	1	0642131

KIMBLE® GL45 BOTTLE CAPS

Description	Color	Material	Liner Material	Case Qty	Fisher Scientific Cat. No.
GL 45 Solid Top Cap	Red	PBT	PTFE-Faced Silicone	1	K9539090000
	PINK	Polypropylene	Linerless	10	02542358
	Green	Polypropylene	Linerless	10	02542357
	Red	PBT	PTFE-Faced Silicone	10	02542350
	Blue	Polypropylenemembrane	0.2 micron PTFE membrane	10	025422
	White	Polypropylene	Linerless	10	025425A
	Blue	Polypropylene	PTFE Plug	1	K9539080000
	GRAY	Polypropylene	Linerless	10	02542356
	ORANGE	Polypropylene	Linerless	10	025430
	Blue	Polypropylene	Linerless	10	025421

KIMBLE® KIMAX® CELL CULTURE FLASKS

Description	Capacity (mL)	Widest OD (mm)	Height (mm)	Graduation Intervals (mL)	Graduation Range (mL)	Case Qty	Fisher Scientific Cat. No.
KIMAX® Cell Culture Flasks	125	66	125	25	50 to 125	24	101401
	250	82	142	25	50 to 225	24	101401A
	500	102	183	50	100 to 500	24	101401B
	1000	128	230	50	250 to 1000	24	101401C
	2000	161	288	100	600 to 2000	12	101404E

KIMBLE® PASTEUR PIPETTES

Description	Capacity (mL)	Tip ID (mm)	OD (mm)	Overall Length (in)	Tip Length (in)	Case Qty	Fisher Scientific Cat. No.
Pastuer Pipettes	2	1.1	7	5.75	2.25	250	12141547
	2	1.1	7	9	5	250	K8833500009
	2	1.1	7	5.75	2.25	1000	22037514
	2	1.1	7	9	5	1000	22037515

KIMBLE® KIMAX® PETRI DISHES

Description	Diameter (mm)	Height (mm)	Case Qty	Fisher Scientific Cat. No.
Petri Dishes	100	15	36	02555130
	150	20	24	12141548
	100	20	32	02555131
	100	10	72	08746B
	60	15	25	02555135

KIMBLE® SCREW THREAD CULTURE TUBES

Description	Overflow Capacity (mL)	OD (mm)	Thread	Length (mm)	Shelf Pack Qty	Fisher Scientific Cat. No.
KIMBLE® Disposable Screw Thread Culture Tube With Marking Spot	250	20	18-415	125	25	22037572
	250	16	15-415	150	20	22037571
	250	20	18-415	150	30	22037573
	250	16	15-415	125	16	22037570
	250	16	15-415	100	12	22037569
	500	13	13-415	100	8	22037568

WHEATON® SPINNER FLASKS

Capacity [mL]	Diameter x height [mm]	Cap size, top	Cap size, sidearm	Pack Qty	Fisher Scientific Cat. No.
WHEATON® DOUBLE SIDEARM CELSTIR® SPINNER FLASK					
25	38 x 122	38-430	15-415	1	064162A
50	38 x 141	38-430	15-415	1	064162B
125	65 x 155	51-400	33-430	1	064162C
250	85 x 175	51-400	33-430	1	064162D
500	110 x 190	100-400	45 mm	1	064162E
1000	130 x 250	100-400	45 mm	1	064162J
3000	178 x 341	100-400	45 mm	1	064162F
6000	258 x 404	100-400	45 mm	1	12141549
8000	293 x 445	100-400	45 mm	1	064162F
WHEATON® JACKETED DOUBLE SIDEARM CELSTIR® SPINNER FLASK					
25	54 x 134	38-430	15-415	1	064163A
50	54 x 147	38-430	15-415	1	064163B
125	80 x 162	51-400	33-430	1	064163C
250	100 x 182	51-400	33-430	1	064163D
500	130 x 195	100-400	45 mm	1	064163E
1000	150 x 260	100-400	45 mm	1	12141550
WHEATON® MAGNA FLEX™ MICROCARRIER SPINNER FLASK					
125	65 x 155	51-400	33-430	1	064161A
250	85 x 175	51-400	33-430	1	064161B
500	110 x 190	100-400	45 mm	1	064161C
1000	130 x 250	100-400	45 mm	1	12141551
3000	178 x 341	100-400	45 mm	1	12141552
6000	258 x 404	100-400	45 mm	1	064161F

WHEATON® BAR CODING & TARING

Premium Services

Completion of this form is required to ensure proper service. Please return this sheet with any additional special requirements to: **Rich Ferrell** – Email: Rich.Ferrell@dwk.com Fax: 856-885-5078

Lead Contact Information			
Company:		Contact:	
Address:		Telephone:	
		Email:	
DWK Rep:		Sales Force INQ#	
DWK Email:		Telephone:	

Container Information				
Please provide below container or component information – one item per page:				
DWK Part #:	Description (include container color & closures if supplied):	Volume (mL):	Estimated Annual Usage:	Type:
				<input type="checkbox"/> Sterile <input type="checkbox"/> Non-Sterile <input type="checkbox"/> RNase/DNase Free Volume

Application Details:			
User Application:	Chemical Exposure:	Temperature:	Unique conditions:
<input type="checkbox"/> High Throughput screening <input type="checkbox"/> Chromatography <input type="checkbox"/> Cryogenic <input type="checkbox"/> Sample Storage <input type="checkbox"/> Genevac <input type="checkbox"/> Other (Specify below):	<input type="checkbox"/> Splash and Wipe <input type="checkbox"/> Submersion/Soak <input type="checkbox"/> DMSO <input type="checkbox"/> Methanol <input type="checkbox"/> Xylene <input type="checkbox"/> IPA <input type="checkbox"/> Other (specify below):	<input type="checkbox"/> -196°C (Cryogenics) <input type="checkbox"/> -80°C <input type="checkbox"/> Ambient <input type="checkbox"/> Autoclave <input type="checkbox"/> Other:	Please describe specific Application or Automation requirements for the Labware:

Formal Labeling specification:			
Image/Label Type – if known:	Yield Order:	Tare weighing:	Packaging Information:
<input type="checkbox"/> Pressure Sensitive Label <input type="checkbox"/> Direct Mark <input type="checkbox"/> Ceramic Label <input type="checkbox"/> Other:	<input type="checkbox"/> Min 97% of qty ordered/possible missing numbers (STANDARD) <input type="checkbox"/> Full quantity (100% order qty/possible gaps in sequence) (ADDS COST) <input type="checkbox"/> 100% yield (100% order qty/no missing numbers) (ADDS COST)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> No specific numeric order required (standard) <input type="checkbox"/> Packaged in exact numerical order (adds cost) <input type="checkbox"/> Other (specify below):
Placement/Barcode Type: <input type="checkbox"/> Side – Linear full wrap (360°) <input type="checkbox"/> Side – Linear Partial Wrap (describe approximate amount of wrap in 'comments' section below) <input type="checkbox"/> Bottom - (will be 2D code only)	Barcode Characters: List/sample of sequence string showing all alpha, numeric, and fixed characters: Linear code only, if applicable - check one: Partial Wrap: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Full Wrap: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>Options possible, additional options omitted for brevity.</small>	<input type="checkbox"/> Palletized shipments Acceptable: <input type="checkbox"/> Yes <input type="checkbox"/> No	Special packing instructions: (i.e. tamper evident, etc.)

Comments (Description of partial wrap linear code, special requirement not listed, etc.):

WHEATON® BENCH-TOP SYSTEM

Description	Plug Style	Pack Qty	Fisher Scientific Cat. No.
WHEATON® BENCH-TOP SYSTEMS – MINI BOTTLE			
120 Vac benchtop roller, mini	North America	1	22288524
Deck kit, mini, charcoal		1	12141553
WHEATON® BENCH-TOP SYSTEMS – SMALL BOTTLE			
120 Vac benchtop roller, small	North America	1	22288525
Deck kit, small, charcoal		1	22288533

WHEATON® COMPLETEPAK™

Description	Pack Qty	Clear Kit Fisher Scientific Cat. No.	Amber Kit Fisher Scientific Cat. No.
WHEATON® COMPLETEPAK™			
2 mL sterile vial (210), 13 mm Ultra Pure sterile serum stopper (230), sterile blue seal (230)	1	06451220	15112150
2 mL sterile vial (210), 13 mm Omni Flex 3G sterile serum stopper (230), sterile blue seal (230)	1	06451221	15112151
2 mL sterile vial (210), 13 mm OmniFlex 3G sterile igloo lyo stopper (230), sterile blue seal (230)	1	06451222	15112152
2 mL sterile vial (210), 13 mm Ultra Pure sterile serum stopper (230), sterile red seal (230)	1	06451223	15112153
2 mL sterile vial (210), 13 mm Omni Flex 3G sterile serum stopper (230), sterile red seal (230)	1	06451224	15112154
2 mL sterile vial (210), 13 mm OmniFlex 3G sterile igloo lyo stopper (230), sterile red seal (230)	1	06451225	15112155
5 mL sterile vial (200), 20 mm Ultra Pure sterile serum stopper (220), sterile blue seal (220)	1	06451226	15112156

Description	Pack Qty	Clear Kit Fisher Scientific Cat. No.	Amber Kit Fisher Scientific Cat. No.
5 mL sterile vial (200), 20 mm OmniFlex 3G sterile serum stopper (220), sterile blue seal (220)	1	06451227	15112157
5 mL sterile vial (200), 20 mm OmniFlex 3G igloo lyo stopper (220), sterile blue seal (220)	1	06451228	15112158
5 mL sterile vial (200), 20 mm Ultra Pure sterile serum stopper (220), sterile red seal (220)	1	06451229	15112159
5 mL sterile vial (200), 20 mm OmniFlex 3G sterile serum stopper (220), sterile red seal (220)	1	06451230	15112160
5 mL sterile vial (200), 20 mm OmniFlex 3G sterile igloo lyo stopper (220), sterile red seal (220)	1	06451231	15112161
10 mL sterile vial (158), 20 mm Ultra Pure sterile serum stopper (220), sterile blue seal (220)	1	06451232	15112162
10 mL sterile vial (158), 20 mm OmniFlex 3G sterile serum stopper (220), sterile blue seal (220)	1	06451233	15112163
10 mL sterile vial (158), 20 mm OmniFlex 3G sterile igloo lyo stopper (220), sterile blue seal (220)	1	06451234	15112164
10 mL sterile vial (158), 20 mm Ultra Pure sterile serum stopper (220), sterile red seal (220)	1	06451235	15112165
10 mL sterile vial (158), 20 mm OmniFlex 3G sterile serum stopper (220), sterile red seal (220)	1	06451236	15112166
10 mL sterile vial (158), 20 mm OmniFlex 3G sterile igloo lyo stopper (220), sterile red seal (220)	1	06451237	15112167

WHEATON® COMPLETEPAK™ STERILE COMPONENTS

Description	Color	Capacity [mL]	Size [mm]	Pack Qty	Fisher Scientific Cat. No.
Sterile serum vial	Clear	2		210	06451238
	Clear	5		200	06451239
	Clear	10		158	06451240
Sterile serum vial	Amber	2		210	15112168
	Amber	5		200	15112169
	Amber	10		158	15112170

STOPPERS

OmniFlex 3G sterile serum stopper	13	230	06451241
Ultra Pure siliconized sterile serum stopper	13	230	06451242
OmniFlex 3G sterile igloo lyo stopper	13	230	06451243
OmniFlex 3G sterile serum stopper	20	220	06451244
Ultra Pure siliconized sterile serum stopper	20	220	06451245
OmniFlex 3G sterile igloo lyo stopper	20	220	06451246

SEALS

13mm Sterile Flip Red Seal	13	230	06451247
13mm Sterile Flip Blue Seal	13	230	06451248
20mm Sterile Flip Red Seal	20	220	06451249
20mm Sterile Flip Blue Seal	20	220	06451250

ORDERING INFORMATION PRODUCTION & PACKAGING

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WHEATON® ROLLER BOTTLES

Description	Diameter x flat overall length [mm]	Usable surface area [cm ²]	Surface [cm ²]	Capacity approx. [mL]	Pack Qty	Fisher Scientific Cat. No.
Roller bottle with 38 mm deep skirted, black phenolic screw cap with white styrene-butadiene rubber liner (GPI 38-415)	110 x 240	550	680	1380	4	12141554
	110 x 285	700	840	1760	4	12141555
	110 x 480	1320	1500	3450	4	12141556
	110 x 550	1555	1680	4230	4	12141557
Roller bottle with 45 mm white polypropylene screw cap with inner sealing ring and polypropylene pour ring.	110 x 240	550	680	1380	4	064421A
	110 x 285	700	840	1760	4	064421B
Roller bottle with 51 mm black phenolic screw cap with shallow skirt and white styrene-butadiene rubber liner (GPI 51-400)	110 x 270	700	840	1760	4	06455C
	110 x 355	940	1070	2500	4	02913302
	110 x 535	1555	1680	4230	4	02913303

WHEATON® STANDARD & R2P™ 2.0 ROLLER APPARATUS

SPECIFICATIONS
next page

Control system	# positions	# decks	# of bottle positions	Width [inch / cm]	Depth [inch / cm]	Height [inch / cm]	Weight [lb / kg]	Fisher Scientific Cat. No.
BOTTOM DRIVE PRODUCTION SPACING								
R2P™ 2.0	5	1	5	31 / 79	25 / 63	14 / 35	52 / 24	02924936
R2P™ 2.0	5	3	15	31 / 79	25 / 63	26 / 65	85 / 39	02924938
R2P™ 2.0	5	11	55	31 / 79	25 / 63	74 / 187	217 / 99	12141558
BOTTOM DRIVE MODULAR SPACING								
R2P™ 2.0	5	3	15	30 / 76	25 / 63	29 / 74	112 / 51	02924954
Standard	5	3	15	30 / 76	25 / 63	29 / 74	112 / 51	02924910
R2P™ 2.0	5	7	35	30 / 76	25 / 63	57 / 145	196 / 89	12141559
Standard	5	7	35	30 / 76	25 / 63	57 / 145	196 / 89	12141560
R2P™ 2.0	5	9	45	30 / 76	25 / 63	71 / 179	238 / 108	02924962
Standard	5	9	45	30 / 76	25 / 63	71 / 179	238 / 108	02924918
TOP DRIVE PRODUCTION SPACING								
R2P™ 2.0	5	11	52	31 / 79	25 / 63	75 / 190	250 / 113	02924904
Standard	5	11	52	31 / 79	25 / 63	75 / 190	250 / 113	02924900

[*] Plug style specification see table below

PART NUMBERING SYSTEM FOR THE CONFIGURATION OF A ROLLER APPARATUS SYSTEM

DWK Life Sciences specializes in standard and customized roller apparatus units. The part numbering system below allows for the configuration of a standard system. The main components that make up a unit include the control system, the size and type of roller bottle decks and system options. There is also a table on the next page listing the most commonly used roller apparatus. **If you have any questions about custom bottle sizes, rotation speeds or standard systems do not hesitate to contact your DWK Life Sciences representative.**

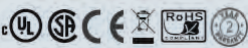
Part number: W + [1] + [2] + [3] + [4] + [5] + [6] + [7] - [*]

Example: WRBPF5110-C

WHEATON® R2P, bottom mount, production, fixed, 5-areas, 11-decks, no-options, plug style Europe


[1] Control system type	[2] Control system location	[3] Deck spacing	[4] Deck type	[5] Capacity	[6] Number of decks	[7] Options	[*] Plug style
R R2P™ 2.0: Advanced touch screen with remote communications and alarms	T Top mounted: Ideal design for rigorous cleaning and ceiling mounted connections	P Production (6"/152mm): Smaller spacing between decks to allow for more bottles per area	F Fixed size with a single piece uprights used for production and lighter weight due to less hardware	5 Five placement areas per deck allows for use with an upright incubator	01- 11 Production spaced units have a maximum of 11 decks	0 No options included	Connection
S STANDARD: LCD display	B Bottom mounted: Ideal design for easy access and floor mounted connections	M Modular (7.125"/181mm): Larger spacing between decks to allow easier removal and replacement of bottles	R Removable decks for flexible design	8 Eight placement areas is used for large scale production type installations	01- 09 Modular spaced units have a maximum of 9 decks	1 Options included Standard Roller: Belt break alarm and battery backup R2P™ 2.0: Temperature monitoring and alarms (2 probes) and battery backup (belt break alarm is already included)	-A North America, 120 V
							-B Japan, 100 V
							-C Europe, 230 V
							-D UK, 230 V
							-F Australia/China, 240 V
							-G Italy/Chile, 230 V
							-J India, 230 V

SPECIFICATIONS

Specifications	WHEATON® Standard Roller Apparatus	WHEATON® R2P™ Roller Apparatus
Capacity	5-88 positions	5-88 positions
Bottle speed	0.25-8.1 RPM (110 mm bottle, other speeds available)	0.25-8.1 RPM (110 mm bottle, other speeds available)
Bottle diameter	108-121 mm	108-121 mm
Bottle length	up to 550 mm	up to 550 mm
Accuracy	0.01 RPM	0.01 RPM
Drive	Belt driven	Belt driven
Motor type	Brushless DC	Brushless DC
Rotation direction	Clockwise and counter-clockwise	Clockwise, counter-clockwise and rocking
Rotation alarm	Optional	Included
Options	Rotation alarm and battery backup	Temperature monitoring and battery backup
Remote communication	Dry contact relay	Yes, Modbus® Protocol and WHEATON® Protocol via Ethernet and RS422
Operating temperature	10 °C to 40 °C	10 °C to 40 °C
Humidity	80% up to 31 °C	80% up to 31 °C
Electrical	100-240 VAC, 50/60 Hz, 35 W	100-240 VAC, 50/60 Hz, 35 W
 Complies with industry standards including UL, CSA, CE, WEEE and RoHs compliant		

WHEATON® STANDARD & CO₂ INCUBATOR

Voltage	Plug style	Pack Qty	Fisher Scientific Cat. No.
WHEATON® STANDARD INCUBATOR			
120 VAC	North America	1	12141561
WHEATON® CO₂ INCUBATOR			
120 VAC	North America	1	12141562

Specifications	WHEATON® Standard Incubator	WHEATON® CO ₂ Incubator
Capacity	39.7 Cubic ft	39.7 Cubic ft
Interior dimensions [W x D x H]	34.7 x 26 x 75" (88.1 x 66.0 x 190.5 cm)	35 x 26 x 75.5" (88.9 x 66 x 191.7 cm)
Exterior dimensions [W x D x H]	42 x 32.4 x 88" (106.7 x 82.3 x 223.5 cm)	42.5 x 34.5 x 89" (108 x 87.6 x 226 cm)
Control	Microprocessor controlled ± 0.1 °C	Microprocessor controlled ± 0.1 °C
Temperature range	8 °C above ambient to 70 °C	8 °C above ambient to 70 °C
Temperature uniformity	Forced air circulation ± 0.5 °C at 37 °C	Forced air circulation ± 0.5 °C at 37 °C
Shelving	20 maximum	30 maximum
Electrical	100-240 VAC, 50/60 Hz, 12A-8 A	100-240 VAC, 50/60 Hz, 15 A-10 A
Interior electrical outlet	1 (chamber ceiling)	1 (chamber ceiling)
Net weight	497 lb (225 kg)	574 lb (260.4 kg)
Shipping weight	657 lb (298.1 kg)	682 lb (309.4 kg)
CO₂ range	-	0-20%
CO₂ sensor	-	IR
CO₂ sensor	-	< 5 min (recovery)
CO₂ connection	-	¼" (6.35 mm) hose barb
CO₂ inlet pressure	-	15-20 psi (0.1.03 - 1.378 bars)
Jacket type	-	Air
 Complies with industry standards including UL, CSA, CE, WEEE and RoHs compliant		

PRODUCTION & PACKAGING

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DURAN® PURE BOTTLES

DURAN® PURE BOTTLES					
Volume [mL]	DIN thread [GL]	Bottles per box [pcs.]	Bottles per pallet [pcs.]	Fisher Scientific Cat. No. clear glass	Fisher Scientific Cat. No. amber colored
25	25	10	940	13710912	02913014
100	45	10	540	13710913	02913015
250	45	10	280	13710914	02913016
500	45	10	360	13710915	02913017
1 000	45	10	210	13710916	02913018
2 000	45	10	120	13710917	02913019
5 000	45	1	48	13710918	02913020
10 000	45	1	30	13710919	02913021
20 000	45	1	12	13710920	02913022

DURAN® PURE CLOSURES			
Description	DIN thread [GL]	Products per PE bag [pcs.]	Fisher Scientific Cat. No.
DURAN® PURE Premium Screw Cap	25	5	13710921
DURAN® PURE Premium Screw Cap	45	5	13710922
DURAN® PURE Premium Lip Seal Cap	45	5	02913032

DURAN® PURE GLS 80° BOTTLES					
Volume [mL]	DIN thread [GLS]	Bottles per box [pcs.]	Bottles per pallet [pcs.]	Fisher Scientific Cat. No. clear glass	Fisher Scientific Cat. No. amber colored
500	80	10	280	02913023	02913026
1 000	80	10	210	02913024	02913027
2 000	80	10	120	02913025	02913028

DURAN® PURE GLS 80° CLOSURE			
Description	DIN thread [GLS]	Products per PE bag [pcs.]	Fisher Scientific Cat. No.
DURAN® PURE Premium Screw Cap	80	1	02913031

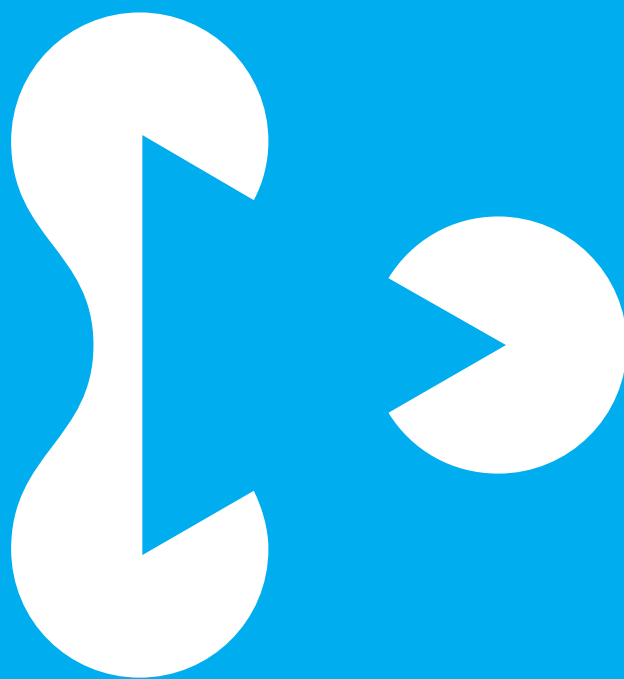
WHEATON® SERUM VIALS & BOTTLES

Description	Color	Capacity [mL]	Mouth ID x OD [mm]	Diameter x height [mm]	Pack Qty	Fisher Scientific Cat. No.
WHEATON® Serum Tubing Vials	Clear	2	7 x 13	15 x 32	144	0640637
	Amber	2	7 x 13	15 x 32	144	06446G
	Clear	3	7 x 13	17 x 38	144	06446C
	Clear	5	13 x 20	22 x 40	144	06446D
	Amber	5	13 x 20	22 x 40	144	06446H
	Clear	10	13 x 20	24 x 50	144	0640638
	Amber	10	13 x 20	24 x 50	144	06446J
	Clear	20	13 x 20	30.5 x 58	120	06446E
	WHEATON® Serum Bottles	Clear	2	7 x 13	15.6 x 36	288
Clear		5	13 x 20	23 x 47	288	06406C
Amber		5	13 x 20	23 x 47	288	06402A
Clear		10	13 x 20	25 x 54	288	06406D
Amber		10	13 x 20	25 x 54	288	06402B
Clear		20	13 x 20	32 x 58	288	06406E
Amber		20	13 x 20	32 x 58	288	06402C
Clear		30	13 x 20	37 x 63	288	06406F
Amber		30	13 x 20	37 x 63	288	06402D
Clear		50	13 x 20	43 x 73	288	06406G
Amber		50	13 x 20	43 x 73	288	06402E
Clear		60	13 x 20	41 x 91	144	06406H
Clear		100	13 x 20	52 x 95	144	06406J
Amber		100	13 x 20	52 x 95	144	06402F
Clear		125	13 x 20	54 x 107	144	06406K

WHEATON® DUALFUSION VIALS

DUALFUSION VIALS			
Description	Pack Configuration	Pack Qty	Fisher Scientific Cat. No.
2R Sterile COP Serum Vial	Vial Tub Qty 1	100	15112129
6R Sterile COP Serum Vial	Vial Tub Qty 1	48	15112130
10R Sterile COP Serum Vial	Vial Tub Qty 1	48	15112131

DUALFUSION—COMPLETEPAK KITS			
Description	Pack Configuration	Pack Qty	Fisher Scientific Cat. No.
2R Sterile COP Serum Vial, Lyo Stopper Bag, Blue Flip Off Seal Bag	Vial Tub Qty 2 (100/tub) Seal Bag Qty 1 (230/bag) Stopper Bag Qty 1 (230/bag)	200	15112126
6R Sterile COP Serum Vial, Lyo Stopper Bag, Blue Flip Off Seal Bag	Vial Tub Qty 4 (48/tub) Seal Bag Qty 1 (220/bag) Stopper Bag Qty 1 (220/bag)	192	15112127
10R Sterile COP Serum Vial, Lyo Stopper Bag, Blue Flip Off Seal Bag	Vial Tub Qty 4 (48/tub) Seal Bag Qty 1 (220/bag) Stopper Bag Qty 1 (220/bag)	192	15112128
2R COP Serum Vial Blue Snap Cap, 13mm Igloo Lyo Stopper, Sterile Tub	Vial Tub Qty 3 (100/tub) Cap Tub Qty 1 (300/tub)	300	15112197
6R COP Serum Vial Blue Snap Cap, 20mm Igloo Lyo Stopper, Sterile Tub	Vial Tub Qty 3 (48/tub) Cap Tub Qty 1 (144/tub)	144	12141563
10R COP Serum Vial Blue Snap Cap, 20mm Igloo Lyo Stopper, Sterile Tub	Vial Tub Qty 3 (48/tub) Cap Tub Qty 1 (144/tub)	144	15112199



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