

TODAY, TOGETHER FOR TOMORROW

SUPPORTING YOUR BIO-PROCESSING AND
VACCINE MANUFACTURING NEEDS



DWK LIFE SCIENCES
DURAN WHEATON KIMBLE

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).



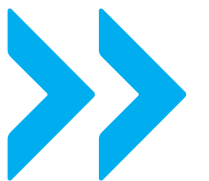
» Vaccines represent one of the most effective and cost-effective medical and public health achievements of all time. «

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® Dropper 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 μ L plates
- Includes pre-cut & non pre-cut μ L mats™
- Glass inserts (pre-installed)
- Capacity: 700 μ L - 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



Find out more ▶

Ordering information Page 36 ▶

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:** 0.1 μ L-1000 μ L & 0.2 mL-10 mL
- 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



Find out more ▶

Ordering information Page 44 ▶

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



Find out more ▶

Ordering information Page 37 ▶

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

Find out more ▶

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WHEATON® DROPPER 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 dropper 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

Find out more ▶

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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



Find out more ▶

Ordering information Page 44 ▶

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



Find out more ▶

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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

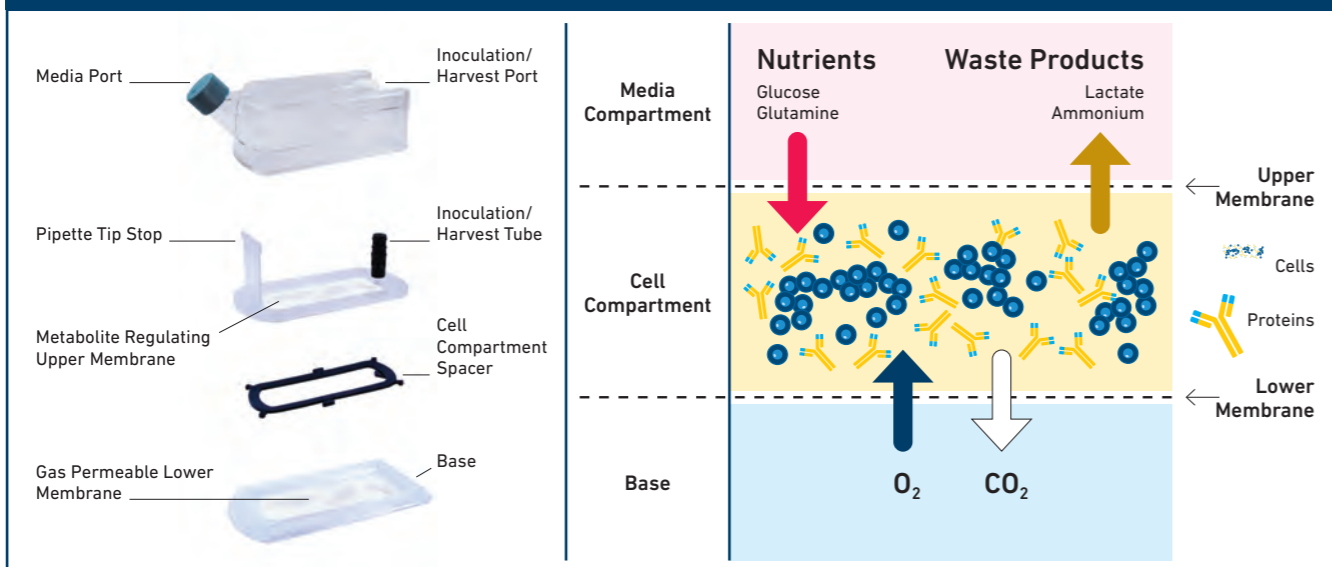
- Multi-harvest device
- High cell density and high product concentration
- Reduces operation time
- Decreases use of consumables
- Cost-efficient, space saving, and stackable
- No additional equipment required for operation
- Much reduced handling and labor costs
- Disposable and ready-to-use
- **Material:**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



Find out more ▶

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How does the CELLLine™ bioreactor flask work?



WHEATON® SEROLOGICAL PIPETTES



Find out more ▶

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WHEATON® PIPET-PAL™ CONTROLLER



Find out more ▶

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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

Find out more ▶

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

Find out more ▶

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


[Find out more](#)
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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


[Find out more](#)
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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

[Find out more](#)
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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)

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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



Find out more ▶

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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



Find out more ▶

Ordering information Page 50 ▶

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



Find out more ▶

Ordering information Page 51 ▶

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



Find out more ▶

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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

Find out more ▶

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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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Find out more ▶

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

Find out more

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

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



**CUSTOMIZABLE
FOR ANY
APPLICATION**

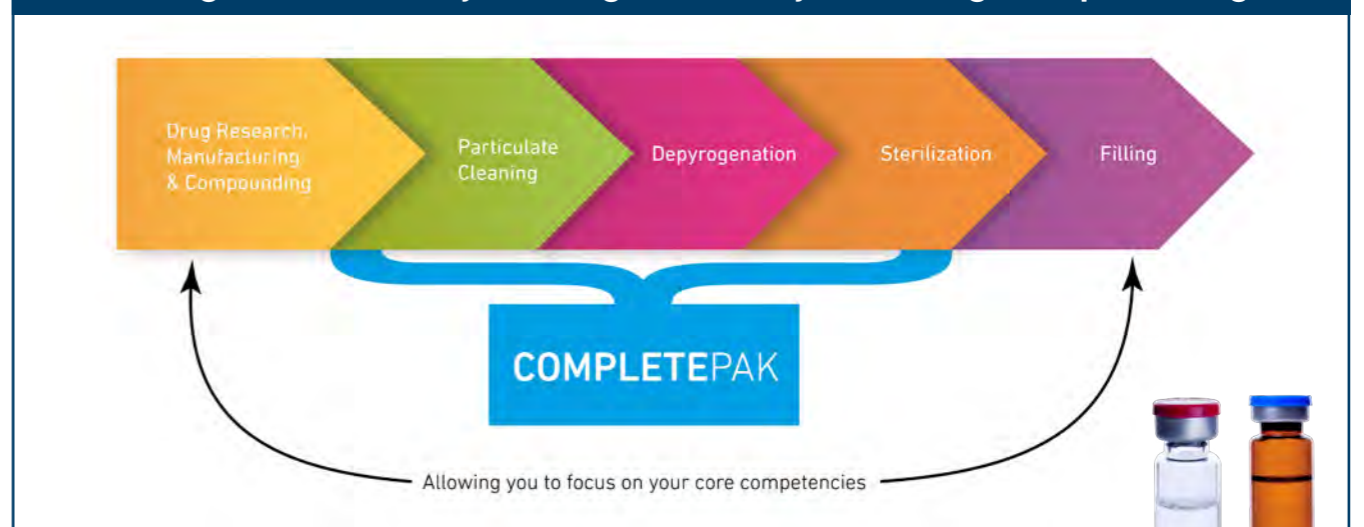
Find out more

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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
- 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



Find out more ▶

Ordering information Page 56 ▶

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



Find out more ▶

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

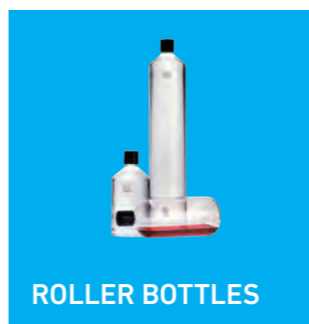


Find out more ▶

Ordering information Page 59 ▶

Specifications are listed on the ordering information page

PERFECT COMBINATION



ROLLER BOTTLES



ROLLER APPARATUS



INCUBATOR

DESIGNED SPECIFICALLY FOR USE WITH WHEATON® STANDARD ROLLER AND R2P™ ROLLER APPARATUS

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 and GLS 80®
- 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

Find out more ▶

Ordering information Page 60 ▶

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



GLS 80® Screw Cap
made from PSU with
PTFE coated silicone seal



ESSENTIAL FOR
PHARMACEUTICAL
PRODUCTION



DURAN®
PURE

www.duran-pure.com



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

VACCINE WORKFLOW



PRODUCTION & PACKAGING



**Assorted stoppers and seals are also available*

Find out more ▶

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 a 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



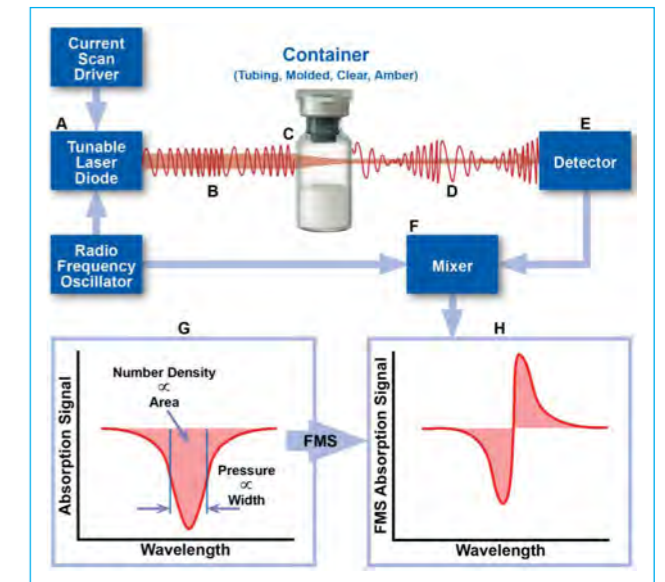
Working with proven packaging designs and materials can help eliminate some parenteral drug development pitfalls

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® Dropper 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

ORDERING INFORMATION SAMPLE COLLECTION & DIAGNOSTICS



WHEATON® MICROLITER® SAMPLE PLATES

Description	Insert Size	Mat Color	Glass Color	Pack Qty	Cat. No.
MicroLiter Plate Sampling System™ Kit	150µL	Blue	Clear	1	07-1221MB-101
	350µL	Blue	Clear	1	07-2021MB-201
	350µL	Blue	Clear	1	07-2021MB-250
	500µL	Blue	Clear	1	07-3021MB-300
	500µL	Blue	Clear	1	07-3021MB-350
	700µL	Blue	Amber	1	07-8021MB-1202
	1.0 mL	Blue	Clear	1	07-8021MB-1000
	1.2 mL	Blue	Clear	1	07-8021MB-1200
	2.2 mL	Blue	Clear	1	07-8021MB-2200

WHEATON® CENTRIFUGE TUBES

Description	Capacity [mL]	Diameter x height [mm]	Cap material	Sterile	Tube material	Inner Pack Qty	Pack Qty	Cat. No.
Centrifuge tube with conical bottom, graduated, bagged	15	17 x 121	HDPE	EtO	Polypropylene	50	500	380220
Centrifuge tube with conical bottom, graduated, bagged	50	29 x 115	HDPE	EtO	Polypropylene	25	500	380100
Centrifuge tube with conical bottom, self-standing, bagged	50	29 x 115	HDPE	EtO	Polypropylene	25	500	380240

AZLON® WASH BOTTLES

Description	Capacity [mL]	Printing label	Material	Pack Qty	Cat. No.
AZLON® MULTI-LINGUAL SAFETY VENTING WASH BOTTLE					
Multi-lingual safety venting wash bottle	250	Ethanol	LDPE	5	WGW535VTML
Multi-lingual safety venting wash bottle	500	Ethanol	LDPE	5	WGW541VTML
AZLON® MULTI-LINGUAL WASH BOTTLES					
Multi-lingual wash bottles	250	Ethanol	LDPE	5	WGW535PML
Multi-lingual wash bottles	500	Ethanol	LDPE	5	WGW541PML
AZLON® WASH BOTTLE DESIGNED TO PROTECT LIGHT SENSITIVE BLEACH					
Wash bottle, LDPE, designed to protect light sensitive bleach	500	Sodium Hypochlorite	LDPE	5	WGW401PML
AZLON® CLASSIC STYLE WASH BOTTLES					
Azlon® Classic style, narrow neck wash bottles	250	Plain	LDPE	5	WGF230P
Azlon® Classic style, narrow neck wash bottles	500	Plain	LDPE	5	WGF236P
AZLON® MULTI-LINGUAL ROUND INTEGRAL WASH BOTTLE					
Multi-lingual Round Integral wash bottle	500	Ethanol	LDPE	5	WGW805P

WHEATON® PLASTIC PASTEUR PIPETTES

Description	Capacity [mL]	Sterile	Inner Pack Qty	Pack Qty	Cat. No.
1 mL graduated pasteur pipette	5	No	500	3000	711115
3 mL graduated pasteur pipette	7	No	500	3000	711116
Jumbo pasteur pipette	23	No	100	600	711230

WHEATON® DROPPER BOTTLES

Description	Bottle Color	Capacity [mL]	Diameter x Height [mm]	Cap size	Material	Inner Pack Qty	Pack Qty	Cat. No.
WHEATON® DROPPER BOTTLE, NATURAL, WITH TIP & CAP								
Dropper bottle with natural tip & natural cap	Natural	7	19 x 63	15-415	LDPE	12	144	211603
Dropper bottle with natural tip & natural cap	Natural	15	25 x 78	15-415	LDPE	12	144	211604
Dropper bottle with natural tip & natural cap	Natural	30	32 x 85	20-410	LDPE	12	144	211605
Dropper bottle with natural tip & natural cap	Natural	60	39 x 101	20-410	LDPE	12	144	211606
Dropper 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® DROPPER BOTTLE, WITH TIP & CAP								
Dropper bottle with natural tip & white cap	Natural	3	14 x 49	8-425	LDPE	12	144	211630
Dropper bottle with natural tip & white cap	White	3	14 x 49	8-425	LDPE	12	144	211620
Dropper bottle with natural tip & white cap	Natural	6	17 x 58	13-425	LDPE	12	144	211631
Dropper bottle with natural tip & white cap	White	6	17 x 58	13-425	LDPE	12	144	211621
Dropper bottle with natural tip & white cap	Natural	7	19 x 63	15-415	LDPE	12	144	211632
Dropper bottle with natural tip & white cap	White	7	19 x 63	15-415	LDPE	12	144	211622
Dropper bottle with natural tip & white cap	Natural	15	25 x 78	15-415	LDPE	12	144	211633
Dropper bottle with natural tip & white cap	White	15	25 x 78	15-415	LDPE	12	144	211623
Dropper bottle with natural tip & white cap	Natural	30	32 x 85	20-410	LDPE	12	144	211634
Dropper bottle with natural tip & white cap	White	30	32 x 85	20-410	LDPE	12	144	211624
Dropper bottle with natural tip & white cap	Natural	60	39 x 101	20-410	LDPE	12	144	211635
Dropper bottle with natural tip & white cap	White	60	39 x 101	20-410	LDPE	12	144	211625
Dropper bottle with natural tip & white cap	Natural	125	47 x 125	20-410	LDPE	6	72	W211636
Dropper 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

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

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WHEATON® DROPPER TIP FOR DROPPER BOTTLES

CONTINUED

Description	Tip Color	Tip size [mm]	Material	Pack Qty	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

Description	Tip Color	Tip size [mm]	Material	Pack Qty	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 DROPPER BOTTLES

CONTINUED

Description	Cap Color	Cap size	Material	Pack Qty	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

Description	Cap Color	Cap size	Material	Pack Qty	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	Cat. No.
Disposable culture tube 1 mL	1	6	50	100	73500-650
Disposable culture tube 4 mL	4	10	75	250	73500-1075
Disposable culture tube 6 mL	6	12	75	250	73500-1275
Disposable culture tube 10 mL	10	13	100	250	73500-13100
Disposable culture tube 11 mL	11	15	85	250	73500-1585
Disposable culture tube 13 mL	13	16	85	250	60T1685B
Disposable culture tube 15 mL	15	16	100	250	73500-16100
Disposable culture tube 19 mL	19	16	125	250	73500-16125
Disposable culture tube 23 mL	23	16	150	250	73500-16150
Disposable culture tube 28.5 mL	28.5	18	150	250	73500-18150
Disposable culture tube 36 mL	36	20	150	250	73500-20150
Disposable culture tube 55 mL	55	25	150	125	73500-25150

SOCOREX® PIPETTES & QUALITIX® TIPS

SOCOREX® MANUAL PIPETTES						
Description	Volume	Division	Min. Vol.	Mid. Vol.	Max. Vol.	Cat. No.
Acura 825	0.1 - 2µL	0.002µL	< ± 6.0 %	< ± 4.0 %	< ± 2.0 %	W810300
	0.5 - 10µL	0.01µL	< ± 2.5 %	< ± 1.8 %	< ± 1.0	W810302
	1 - 10µL	0.01µL	< ± 2.5 %	< ± 1.8 %	< ± 1.0 %	W810304
	2 - 20µL	0.02µL	< ± 2.5 %	< ± 1.8 %	< ± 1.0 %	W810306
Acura 826	0.1 - 2µL	0.002µL	< ± 6.0 %	< ± 4.0 %	< ± 2.0 %	W810300-XS
	0.5 - 10µL	0.01µL	< ± 2.5 %	< ± 1.8 %	< ± 1.0 %	W810302-XS
	1 - 10µL	0.01µL	< ± 2.5 %	< ± 1.8 %	< ± 1.0 %	W810304-XS
	2 - 20µL	0.02µL	< ± 2.5 %	< ± 1.8 %	< ± 1.0 %	W810306-XS
Acura 835	0.2 - 2mL	0.002mL	< ± 1.5 %	< ± 1.0 %	< ± 0.5 %	W810315
	0.5 - 5mL	0.01mL	< ± 1.5 %	< ± 1.1 %	< ± 0.6 %	W810316
	1 - 10mL	0.01mL	< ± 1.5 %	< ± 0.7 %	< ± 0.5 %	W810318

SOCOREX® QUALITIX® TIPS				
Description	Sterile	Packaging	Case Qty	Cat. No.
10 µL ultra-microtips, fine pointed, graduated	Yes	12x96 / rack	1,152 tips	3090.0010FRS
20 µL filter tips, low binding, bevel point	Yes	10x96 / rack	960 tips	3080.0020FRS
100 µL filter tips, low binding, bevel point	Yes	10x96 / rack	960 tips	3080.0100FRS
200 µL universal tips, low binding, graduated, autoclavable	No	10x96 / rack	960 tips	3070.0200PR
200 µL universal tips, low binding, graduated, autoclavable	Yes	10x96 / rack	960 tips	3070.0200PRS
300 µL filter tips	No	10x96 / rack	960 tips	308.0300FR
1000 µL universal tips, low binding, fine pointed, autoclavable	No	6x96 / rack	576 tips	3070.1000PR
1000 µL ultra-microtips, low binding, fine pointed, autoclavable	Yes	6x96 / rack	576 tips	3070.1000PRS

ORDERING INFORMATION RESEARCH & DEVELOPMENT

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WHEATON® CELLINE™ BIOREACTOR FLASK

Description	Culture type	Media compartment size [mL]	Cell compartment size [mL]	Pack Qty	Cat. No.
CELLine 350	Suspension	350	5	1	WCL0350-1
CELLine 350	Suspension	350	5	5	WCL0350-5
CELLine 1000	Suspension	1000	15	1	WCL1000-1
CELLine 1000	Suspension	1000	15	3	WCL1000-3
CELLine 1000-AD	Adherent	1000	15	1	WCL1000AD-1
CELLine 1000-AD	Adherent	1000	15	3	WCL1000AD-3

WHEATON® SEROLOGICAL PIPETTES

Description	Color	Capacity [mL]	Graduation intervals [mL]	Negative graduations [mL]	Inner Pack Qty	Pack Qty	Cat. No.
Individually wrapped – Sterile serological pipettes in easy open paper/plastic peel packaging	Red	1	0.1	0.3	200	1000	56900-1110
	Yellow	1	0.01	0.3	200	1000	56900-11100
	White	2	0.01	0.3	125	500	56900-21100
	Blue	5	0.1	2	50	200	56900-5110
	Orange	10	0.1	3	50	200	56900-10110
	Green	25	0.2	10	50	200	56900-25210
	Purple	50	0.5	10	25	100	56900-50510
Multipack – Sterile serological pipettes packed in plastic bag	Red	1	0.1	0.3	25	1000	56800-1110
	Yellow	1	0.01	0.3	25	1000	56800-11100
	White	2	0.01	0.3	25	500	56800-21100
	Blue	5	0.1	2	25	500	56800-5110
	Orange	10	0.1	3	25	500	56800-10110
	Orange wide tip	10	0.1	3	25	500	56825-10110
	Green	25	0.2	10	10	200	56800-25210
Purple	50	0.5	10	10	100	56800-50510	
Canister pack – Sterile serological pipettes packed into a cardboard canister with tear perforations for ease of opening and reclosing	Yellow	1	0.01	0.3	50	500	56700-11100
	White	2	0.01	0.3	50	500	56700-21100
	Blue	5	0.1	2	50	500	56700-5110
	Orange	10	0.1	3	50	500	56700-10110

Description	Height x Width x Depth [cm]	Material	Pack Qty	Cat. No.
Pipette Rack for Serological Pipettes	41 x 9 x 29	Heavy-duty clear-view acrylic	1	72190-0000

WHEATON® PIPET-PAL™ CONTROLLER

Description	Pack Qty	Cat. No.
PIPET-PAL controller, translucent blue	1	W155091
PIPET-PAL wall mount	1	W155521
Replacement PTFE filters, 0.45 µm, non-sterile	10	W153016
Replacement PTFE filters, 0.45 µm, sterile	10	W153015
Replacement PTFE filters, 0.20 µm, non-sterile	10	W156607
Replacement PTFE filters, 0.20 µm, sterile	10	W156608

WHEATON® CRYOELITE® CRYOGENIC VIALS*

Description	Capacity [mL]	Cap color	Diameter x height [mm]	Writing patch	Sterile	Pack Qty	Cat. No.	
WHEATON® CRYOELITE® CRYOGENIC VIALS – FREESTANDING								
internal thread	1.2	Natural	12 x 40	Yes	Yes	500	W985915	
	2	Natural	12 x 50	Yes	No	1000	W985902	
	2	Natural	12 x 50	No	No	1000	W985903	
	2	Natural	12 x 50	Yes	Yes	500	W985922	
	2	White	12 x 50	Yes	Yes	500	W985916	
	2	Red	12 x 50	Yes	Yes	500	W985917	
	2	Pink	12 x 50	Yes	Yes	500	W985918	
	2	Yellow	12 x 50	Yes	Yes	500	W985919	
	2	Green	12 x 50	Yes	Yes	500	W985920	
	2	Blue	12 x 50	Yes	Yes	500	W985921	
	3	Natural	12 x 63	Yes	Yes	500	W985923	
	4	Natural	12 x 77	Yes	Yes	500	W985924	
	5	Natural	12 x 91	Yes	Yes	500	W985925	
	external thread	0.5	White	12 x 49	Yes	Yes	500	W985874
		1.2	Natural	12 x 37	Yes	Yes	500	W985862
1.2		White	12 x 37	Yes	Yes	500	W985883	
1.2		Red	12 x 37	Yes	Yes	500	W985884	
1.2		Pink	12 x 37	Yes	Yes	500	W985885	
1.2		Yellow	12 x 37	Yes	Yes	500	W985886	
1.2		Green	12 x 37	Yes	Yes	500	W985887	
1.2		Blue	12 x 37	Yes	Yes	500	W985888	
2		Natural	12 x 49	Yes	Yes	1000	W985852	
2		Natural	12 x 49	No	No	1000	W985853	
2		Natural	12 x 49	Yes	Yes	500	W985872	
2		White	12 x 49	Yes	Yes	500	W985863	
2		Red	12 x 49	Yes	Yes	500	W985864	
2		Pink	12 x 49	Yes	Yes	500	W985865	
2		Yellow	12 x 49	Yes	Yes	500	W985866	
2	Green	12 x 49	Yes	Yes	500	W985867		

Description	Capacity [mL]	Cap color	Diameter x height [mm]	Writing patch	Sterile	Pack Qty	Cat. No.
external thread	2	Blue	12 x 49	Yes	Yes	500	W985868
	3	Natural	12 x 63	Yes	Yes	500	W985869
	4	Natural	12 x 78	Yes	Yes	500	W985870
	5	Natural	12 x 93	Yes	Yes	500	W985871

WHEATON® CRYOELITE® CRYOGENIC VIALS – ROUND BOTTOM

internal thread	1.2	Natural	12 x 39	Yes	Yes	500	W985910
	2	Natural	12 x 49	Yes	Yes	500	W985911
	2	Natural	12 x 49	Yes	No	1000	W985900
	2	Natural	12 x 49	No	No	1000	W985901
	3	Natural	12 x 63	Yes	Yes	500	W985912
	4	Natural	12 x 76	Yes	Yes	500	W985913
	5	Natural	12 x 90	Yes	Yes	500	W985914
	external thread	1.2	Natural	12 x 35	Yes	Yes	500
2		Natural	12 x 49	Yes	Yes	500	W985861
2		Natural	12 x 49	Yes	No	1000	W985850
2		Natural	12 x 49	No	No	1000	W985851

WHEATON® CRYOELITE® CRYOGENIC VIALS – SHELF PACKS

	2	White	12 x 49	Yes	Yes	100	W985863-100
	2	Red	12 x 49	Yes	Yes	100	W985864-100
	2	Pink	12 x 49	Yes	Yes	100	W985865-100
	2	Yellow	12 x 49	Yes	Yes	100	W985866-100
	2	Green	12 x 49	Yes	Yes	100	W985867-100
	2	Blue	12 x 49	Yes	Yes	100	W985868-100
	2	Natural	12 x 49	Yes	Yes	100	W985872-100

* 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	Cat. No.
CryoELITE® Tissue Vial	5	White	22 x 24	Yes	250	W985100

KIMBLE® KIMAX® BAFFLED FLASKS

Description	Capacity (mL)	Bottom OD (mm)	Neck OD (mm)	Height (mm)	Case Qty	Cat. No.
KIMAX® Baffled Flasks	125	66	25	125	6	25630-125
	260	82	38	142	6	25630-250
	500	102	38	183	6	25630-500
	1000	128	38	230	6	25630-1000
	2000	161	38	288	6	25630-2000

WHEATON® PETG MEDIA BOTTLES

Description	Cap style	Capacity [mL]	Closure size	Diameter [mm]	Height [mm]	Height with cap on [mm]	Pack Qty	Cat. No.
WHEATON® PETG Media Bottles	Tamper evident cap	30	20-415	38	60	62.1	24	WPBGC0030S
	Standard cap	30	20-415	38	60	62.1	24	WPBGC0030SB
	Tamper evident cap	60	24-415	40	80	83.1	24	WPBGC0060S
	Standard cap	60	24-415	40	80	83.1	24	WPBGC0060SB
	Tamper evident cap	125	38-430	54.4	103.7	109.4	24	WPBGC0125S
	Standard cap	125	38-430	54.4	103.7	109.4	24	WPBGC0125SB
	Tamper evident cap	250	38-430	59	139	144.7	24	WPBGC0250S
	Standard cap	250	38-430	59	139	144.7	24	WPBGC0250SB
	Tamper evident cap	500	38-430	73	172	177.7	12	WPBGC0500S
	Standard cap	500	38-430	73	172	177.7	12	WPBGC0500SB
	Tamper evident cap	1000	38-430	92	213	218.7	12	WPBGC1000S
	Standard cap	1000	38-430	92	213	218.7	12	WPBGC1000SB
	Tamper evident cap	2000	53B	115	266	271.2	6	WPBGC2000S
	Standard cap	2000	53B	115	266	271.2	6	WPBGC2000SB

KIMBLE® KIMAX® GL45 MEDIA BOTTLES

Description	Capacity (mL)	OD (mm)	Height (mm)	Graduation Intervals (mL)	Graduation Range (mL)	Case Qty	Cat. No.
KIMAX® GL45 Media Bottles	100	56	100	10	20-80	10	14395-100
	250	70	138	25	50-200	10	14395-250
	500	86	176	50	100-400	10	14395-500
	1000	101	225	50	100-900	10	14395-1000
	2000	136	260	100	400-1800	4	14395-2000
	5000	181	330	250	1000-4000	1	14395-5000
	10000	227	410	500	2000-8000	1	14395-10000

KIMBLE® GL45 BOTTLE CAPS

Description	Color	Material	Liner Material	Case Qty	Cat. No.
GL 45 Solid Top Cap	Red	PBT	PTFE-Faced Silicone	1	953909-0000
	PINK	Polypropylene	Linerless	10	14395C-459
	Green	Polypropylene	Linerless	10	14395C-457
	Red	PBT	PTFE-Faced Silicone	10	14395H-452
	Blue	Polypropylenemembrane	0.2 micron PTFE membrane	10	14395M-45
	White	Polypropylene	Linerless	10	14395C-451
	Blue	Polypropylene	PTFE Plug	1	953908-0000
	GRAY	Polypropylene	Linerless	10	14395C-455
	ORANGE	Polypropylene	Linerless	10	14395C-453
	Blue	Polypropylene	Linerless	10	14395C-45

KIMBLE® KIMAX® CELL CULTURE FLASKS

Description	Capacity (mL)	Widest OD (mm)	Height (mm)	Graduation Intervals (mL)	Graduation Range (mL)	Case Qty	Cat. No.
KIMAX® Cell Culture Flasks	125	66	125	25	50 to 125	24	25615-125
	250	82	142	25	50 to 225	24	25615-250
	500	102	183	50	100 to 500	24	25615-500
	1000	128	230	50	250 to 1000	24	25615-1000
	2000	161	288	100	600 to 2000	12	25615-2000

KIMBLE® PASTEUR PIPETTES

Description	Capacity (mL)	Tip ID (mm)	OD (mm)	Overall Length (in)	Tip Length (in)	Case Qty	Cat.No.
Pastuer Pipettes	2	1.1	7	5.75	2.25	250	883350-0575
	2	1.1	7	9	5	250	883350-0009
	2	1.1	7	5.75	2.25	1000	63A53
	2	1.1	7	9	5	1000	63B92

KIMBLE® KIMAX® PETRI DISHES

Description	Diameter (mm)	Height (mm)	Case Qty	Cat. No.
Petri Dishes	100	15	36	23061-10015
	150	20	24	23060-15020
	100	20	32	23061-10020
	100	10	72	23060-10010
	60	15	25	23061-6015

KIMBLE® SCREW THREAD CULTURE TUBES

Description	Overflow Capacity (mL)	OD (mm)	Thread	Length (mm)	Shelf Pack Qty	Cat. No.
KIMBLE® Disposable Screw Thread Culture Tube With Marking Spot	250	20	18-415	125	25	73750-20125
	250	16	15-415	150	20	73750-16150
	250	20	18-415	150	30	73750-20150
	250	16	15-415	125	16	73750-16125
	250	16	15-415	100	12	73750-16100
	500	13	13-415	100	8	73750-13100

WHEATON® SPINNER FLASKS

Capacity [mL]	Diameter x height [mm]	Cap size, top	Cap size, sidearm	Pack Qty	Cat. No.
WHEATON® DOUBLE SIDELARM CELSTIR® SPINNER FLASK					
25	38 x 122	38-430	15-415	1	356873
50	38 x 141	38-430	15-415	1	356875
125	65 x 155	51-400	33-430	1	356876
250	85 x 175	51-400	33-430	1	356879
500	110 x 190	100-400	45 mm	1	356882
1000	130 x 250	100-400	45 mm	1	356884
3000	178 x 341	100-400	45 mm	1	356887
6000	258 x 404	100-400	45 mm	1	356889
8000	293 x 445	100-400	45 mm	1	356890
WHEATON® JACKETED DOUBLE SIDELARM CELSTIR® SPINNER FLASK					
25	54 x 134	38-430	15-415	1	356943
50	54 x 147	38-430	15-415	1	356945
125	80 x 162	51-400	33-430	1	356946
250	100 x 182	51-400	33-430	1	356949
500	130 x 195	100-400	45 mm	1	356952
1000	150 x 260	100-400	45 mm	1	356954
WHEATON® MAGNA FLEX™ MICROCARRIER SPINNER FLASK					
125	65 x 155	51-400	33-430	1	356830
250	85 x 175	51-400	33-430	1	356831
500	110 x 190	100-400	45 mm	1	356832
1000	130 x 250	100-400	45 mm	1	356834
3000	178 x 341	100-400	45 mm	1	356837
6000	258 x 404	100-400	45 mm	1	356839

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-Volumer

Application Details:			
User Application: <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):	Chemical Exposure: <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):	Temperature: <input type="checkbox"/> -196°C (Cryogenics) <input type="checkbox"/> -80°C <input type="checkbox"/> Ambient <input type="checkbox"/> Autoclave <input type="checkbox"/> Other:	Unique conditions: Please describe specific Application or Automation requirements for the Labware:

Formal Labeling specification:			
Image/Label Type – if known: <input type="checkbox"/> Pressure Sensitive Label <input type="checkbox"/> Direct Mark <input type="checkbox"/> Ceramic Label <input type="checkbox"/> Other:	Yield Order: <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)	Tare weighing: <input type="checkbox"/> Yes <input type="checkbox"/> No	Packaging Information: <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"/> 	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	Cat. No.
WHEATON® BENCH-TOP SYSTEMS – MINI BOTTLE			
120 Vac benchtop roller, mini	North America	1	W348923-A
100 Vac benchtop roller, mini	Japan	1	W348923-B
230 Vac benchtop roller, mini	Continental Europe	1	W348923-C
230 Vac benchtop roller, mini	UK	1	W348923-D
240 Vac benchtop roller, mini	Australia/China	1	W348923-F
230 Vac benchtop roller, mini	Italy/Chile	1	W348923-G
230 Vac benchtop roller, mini	India	1	W348923-J
Deck kit, mini, charcoal		1	W348920-CH
WHEATON® BENCH-TOP SYSTEMS – SMALL BOTTLE			
120 Vac benchtop roller, small	North America	1	W348924-A
100 Vac benchtop roller, small	Japan	1	W348924-B
230 Vac benchtop roller, small	Continental Europe	1	W348924-C
230 Vac benchtop roller, small	UK	1	W348924-D
240 Vac benchtop roller, small	Australia/China	1	W348924-F
230 Vac benchtop roller, small	Italy/Chile	1	W348924-G
230 Vac benchtop roller, small	India	1	W348924-J
Deck kit, small, charcoal		1	W348930-CH

WHEATON® COMPLETEPAK™

Description	Pack Qty	Clear Kit Cat. No.	Amber Kit Cat. No.
WHEATON® COMPLETEPAK™			
2 mL sterile vial (210), 13 mm Ultra Pure sterile serum stopper (230), sterile blue seal (230)	1	W990000-CP	W990000-CPA
2 mL sterile vial (210), 13 mm Omni Flex 3G sterile serum stopper (230), sterile blue seal (230)	1	W990001-CP	W990001-CPA
2 mL sterile vial (210), 13 mm OmniFlex 3G sterile igloo lyo stopper (230), sterile blue seal (230)	1	W990002-CP	W990002-CPA
2 mL sterile vial (210), 13 mm Ultra Pure sterile serum stopper (230), sterile red seal (230)	1	W990003-CP	W990003-CPA
2 mL sterile vial (210), 13 mm Omni Flex 3G sterile serum stopper (230), sterile red seal (230)	1	W990004-CP	W990004-CPA
2 mL sterile vial (210), 13 mm OmniFlex 3G sterile igloo lyo stopper (230), sterile red seal (230)	1	W990005-CP	W990005-CPA
5 mL sterile vial (200), 20 mm Ultra Pure sterile serum stopper (220), sterile blue seal (220)	1	W990006-CP	W990006-CPA
5 mL sterile vial (200), 20 mm OmniFlex 3G sterile serum stopper (220), sterile blue seal (220)	1	W990007-CP	W990007-CPA

Description	Pack Qty	Clear Kit Cat. No.	Amber Kit Cat. No.
5 mL sterile vial (200), 20 mm OmniFlex 3G igloo lyo stopper (220), sterile blue seal (220)	1	W990008-CP	W990008-CPA
5 mL sterile vial (200), 20 mm Ultra Pure sterile serum stopper (220), sterile red seal (220)	1	W990009-CP	W990009-CPA
5 mL sterile vial (200), 20 mm OmniFlex 3G sterile serum stopper (220), sterile red seal (220)	1	W990010-CP	W990010-CPA
5 mL sterile vial (200), 20 mm OmniFlex 3G sterile igloo lyo stopper (220), sterile red seal (220)	1	W990011-CP	W990011-CPA
10 mL sterile vial (158), 20 mm Ultra Pure sterile serum stopper (220), sterile blue seal (220)	1	W990012-CP	W990012-CPA
10 mL sterile vial (158), 20 mm OmniFlex 3G sterile serum stopper (220), sterile blue seal (220)	1	W990013-CP	W990013-CPA
10 mL sterile vial (158), 20 mm OmniFlex 3G sterile igloo lyo stopper (220), sterile blue seal (220)	1	W990014-CP	W990014-CPA
10 mL sterile vial (158), 20 mm Ultra Pure sterile serum stopper (220), sterile red seal (220)	1	W990015-CP	W990015-CPA
10 mL sterile vial (158), 20 mm OmniFlex 3G sterile serum stopper (220), sterile red seal (220)	1	W990016-CP	W990016-CPA
10 mL sterile vial (158), 20 mm OmniFlex 3G sterile igloo lyo stopper (220), sterile red seal (220)	1	W990017-CP	W990017-CPA

WHEATON® COMPLETEPAK™ STERILE COMPONENTS

Description	Color	Capacity [mL]	Size [mm]	Pack Qty	Cat. No.
Sterile serum vial	Clear	2		210	W986000-S
	Clear	5		200	W986001-S
	Clear	10		158	W986002-S
Sterile serum vial	Amber	2		210	W986000A-S
	Amber	5		200	W986001A-S
	Amber	10		158	W986002A-S

STOPPERS

OmniFlex 3G sterile serum stopper	13	230	W986003-S
Ultra Pure siliconized sterile serum stopper	13	230	W986004-S
OmniFlex 3G sterile igloo lyo stopper	13	230	W986005-S
OmniFlex 3G sterile serum stopper	20	220	W986006-S
Ultra Pure siliconized sterile serum stopper	20	220	W986007-S
OmniFlex 3G sterile igloo lyo stopper	20	220	W986008-S

SEALS

13mm Sterile Flip Red Seal	13	230	W986009-S
13mm Sterile Flip Blue Seal	13	230	W986010-S
20mm Sterile Flip Red Seal	20	220	W986011-S
20mm Sterile Flip Blue Seal	20	220	W986012-S

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	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	348252
	110 x 285	700	840	1760	4	348253
	110 x 480	1320	1500	3450	4	348256
	110 x 550	1555	1680	4230	4	348258
Roller bottle with 45 mm white polypropylene screw cap with inner sealing ring and polypropylene pour ring.	110 x 240	550	680	1380	4	348272
	110 x 285	700	840	1760	4	348273
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	348522
	110 x 355	940	1070	2500	4	348524
	110 x 535	1555	1680	4230	4	348528

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]	Cat. No.
BOTTOM DRIVE PRODUCTION SPACING								
R2P™ 2.0	5	1	5	31 / 79	25 / 63	14 / 35	52 / 24	WRBPR5010-[*]
R2P™ 2.0	5	3	15	31 / 79	25 / 63	26 / 65	85 / 39	WRBPR5030-[*]
R2P™ 2.0	5	11	55	31 / 79	25 / 63	74 / 187	217 / 99	WRBPF5110-[*]
BOTTOM DRIVE MODULAR SPACING								
R2P™ 2.0	5	3	15	30 / 76	25 / 63	29 / 74	112 / 51	WRBMR5030-[*]
Standard	5	3	15	30 / 76	25 / 63	29 / 74	112 / 51	WSBMR5030-[*]
R2P™ 2.0	5	7	35	30 / 76	25 / 63	57 / 145	196 / 89	WRBMR5070-[*]
Standard	5	7	35	30 / 76	25 / 63	57 / 145	196 / 89	WSBMR5070-[*]
R2P™ 2.0	5	9	45	30 / 76	25 / 63	71 / 179	238 / 108	WRBMR5090-[*]
Standard	5	9	45	30 / 76	25 / 63	71 / 179	238 / 108	WSBMR5090-[*]
TOP DRIVE PRODUCTION SPACING								
R2P™ 2.0	5	11	52	31 / 79	25 / 63	75 / 190	250 / 113	WRTPF5110-[*]
Standard	5	11	52	31 / 79	25 / 63	75 / 190	250 / 113	WSTPF5110-[*]

[*] 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] - [*]

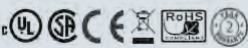
Example: WRBPF5110-C

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 -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
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)	

SPECIFICATIONS

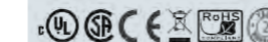
Specifications	WHEATON® Standard Roller Apparatus	WHEATON® R2P™ Roller Apparatus
Capacity	5-88 positions	5-88 positions
Bottle speed	0.25-8.1 RPM (110 mm bottle, other speeds available)	0.25-8.1 RPM (110 mm bottle, other speeds available)
Bottle diameter	108-121 mm	108-121 mm
Bottle length	up to 550 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	Cat. No.
WHEATON® STANDARD INCUBATOR			
120 VAC	North America	1	W753681
100 VAC	Japan	1	W753681-B-E
230 VAC	Continental Europe	1	W753685-C-E
230 VAC	United Kingdom	1	W753685-D-E
230 VAC	Australia/China	1	W753685-F-E
230 VAC	Italy/Chile	1	W753685-G-E
230 VAC	India	1	W753685-J-E
230 VAC	Switzerland	1	W753685-L-E
WHEATON® CO₂ INCUBATOR			
120 VAC	North America	1	WI057608
230 VAC	Continental Europe	1	WI057608-C-E
230 VAC	United Kingdom	1	WI057608-D-E
230 VAC	Australia/China	1	WI057608-F-E
230 VAC	India	1	WI057608-J-E

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.]	Cat. No. clear glass	Cat. No. amber colored
25	25	10	940	81 801 14 01	81 806 14 06
100	45	10	540	81 801 24 06	81 806 24 02
250	45	10	280	81 801 36 08	81 806 36 04
500	45	10	360	81 801 44 07	81 806 44 03
1 000	45	10	210	81 801 54 03	81 806 54 08
2 000	45	10	120	81 801 63 05	81 806 63 01
5 000	45	1	48	81 801 73 01	81 806 73 06
10 000	45	1	30	81 801 86 06	81 806 86 02
20 000	45	1	12	81 801 91 05	81 806 91 01

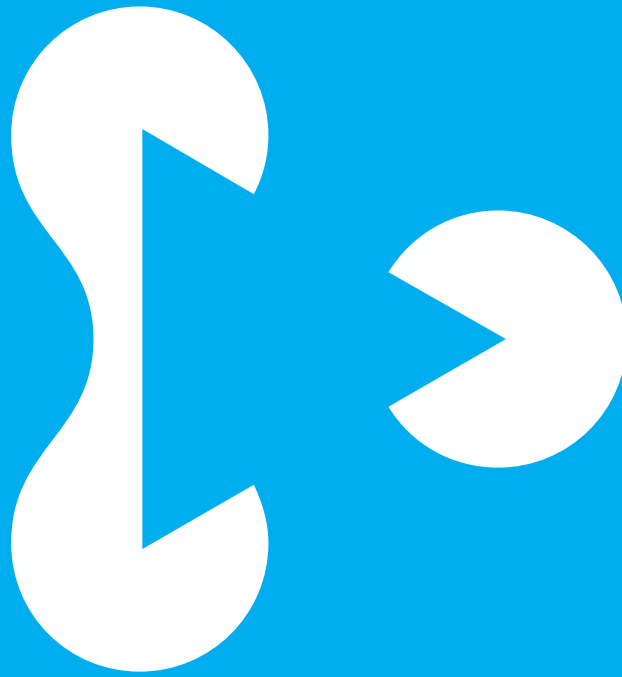
DURAN® PURE CLOSURES			
Description	DIN thread [GL]	Products per PE bag [pcs.]	Cat. No.
DURAN® PURE Premium Screw Cap	25	5	89 108 13 06
DURAN® PURE Premium Screw Cap	45	5	89 108 86 79
DURAN® PURE Premium Lip Seal Cap	45	5	89 886 28 02
DURAN® PURE Premium Pouring Ring	45	5	89 108 86 78
DURAN® PURE Silicone Seal, PTFE coated	25	10	29 248 14 56
DURAN® PURE Silicone Seal, PTFE coated	45	10	29 248 29 58

DURAN® PURE GLS 80° BOTTLES					
Volume [mL]	DIN thread [GLS]	Bottles per box [pcs.]	Bottles per pallet [pcs.]	Cat. No. clear glass	Cat. No. amber colored
500	80	10	280	81 860 44 03	81 866 44 09
1 000	80	10	210	81 860 54 08	81 866 54 05
2 000	80	10	120	81 860 63 01	81 866 63 07
5 000	80	1	48	81 860 73 06	81 866 73 03
10 000	80	1	30	81 860 86 02	81 866 86 08
20 000	80	1	12	81 860 91 01	81 866 91 07

DURAN® PURE GLS 80° CLOSURE			
Description	DIN thread [GLS]	Products per PE bag [pcs.]	Cat. No.
DURAN® PURE Premium Screw Cap	80	1	89 116 91 09
DURAN® PURE Premium Screw Cap	80	10	29 248 91 02

WHEATON® SERUM VIALS & BOTTLES

Description	Color	Capacity [mL]	Mouth ID x OD [mm]	Diameter x height [mm]	Pack Qty	Cat. No.
WHEATON® Serum Tubing Vials	Clear	2	7 x 13	15 x 32	144	223683
	Amber	2	7 x 13	15 x 32	144	223693
	Clear	3	7 x 13	17 x 38	144	223684
	Clear	5	13 x 20	22 x 40	144	223685
	Amber	5	13 x 20	22 x 40	144	223695
	Clear	10	13 x 20	24 x 50	144	223686
	Amber	10	13 x 20	24 x 50	144	223696
WHEATON® Serum Bottles	Clear	20	13 x 20	30.5 x 58	120	223687
	Clear	2	7 x 13	15.6 x 36	288	W223712
	Clear	5	13 x 20	23 x 47	288	223738
	Amber	5	13 x 20	23 x 47	288	223760
	Clear	10	13 x 20	25 x 54	288	223739
	Amber	10	13 x 20	25 x 54	288	223761
	Clear	20	13 x 20	32 x 58	288	223742
	Amber	20	13 x 20	32 x 58	288	223762
	Clear	30	13 x 20	37 x 63	288	223743
	Amber	30	13 x 20	37 x 63	288	223763
	Clear	50	13 x 20	43 x 73	288	223745
	Amber	50	13 x 20	43 x 73	288	223764
	Clear	60	13 x 20	41 x 91	144	223746
	Clear	100	13 x 20	52 x 95	144	223747
	Amber	100	13 x 20	52 x 95	144	223766
Clear	125	13 x 20	54 x 107	144	223748	



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DWK/ERC_019 01/2023

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