



Sartorius (Biohit) Filter Tips

Sartorius filter tips are manufactured to perfectly match Sartorius (Biohit) pipettes. As a result, you have the assurance of an excellent fit and seal, giving the best possible performance.

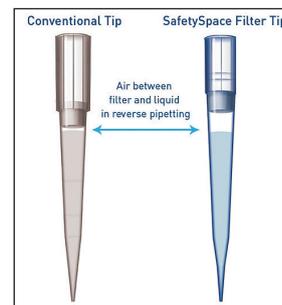
Sartorius (Biohit) SafetySpace™ Filter Tips

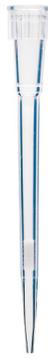
These tips have been designed to leave a larger than normal air space between the sample and the filter. This avoids the problem of the sample coming into contact with the filter and is particularly useful in the following applications which require an extra volume in the tip:

- Pipetting foaming liquids such as buffers and proteins
- Pipetting solvents
- Multiple dispensing functions of electronic pipettes
- Reverse pipetting

Sartorius (Biohit) Standard Filter Tips

This is a small selection of tips from the original Biohit filter tip range with a standard air space between the sample and the filter. These tips have been retained for speciality applications.



		SafetySpace™ Filter Tips							
Volume Range μl		0.1-10 μl	0.1-10 μl	0.5-20 μl	2-120 μl	5-200 μl	5-300 μl	50-1000 μl	50-1200 μl
Tip I.D. (See Pipette pages to verify tip fit)		L	M	N	O	P	Q	S	T
Tray Colour									
 SafetySpace™									
Racked Sterile	Cat. No.	790011F	783201	790021F	790101F	790201F	790301F	791001F	791211F
	Pack Size	10 x 96	10 x 96	10 x 96					

All tips illustrated are actual size unless otherwise stated

Empty Boxes for Sartorius Tip Refill System (Tips and trays are not included)

Catalogue Number	Description	Tip I.D.	Tip Volume (non-filter)	Pack Size
790910	Empty Tip Box for Refill System	A, C, D	10, 300, 350 μl	10

Other Popular Tips

Tip Description and Volume Range μ l		Low Retention						1-50 μ l Filter
		0.1-10 μ l Micro Low Retention	0.5-10 μ l Extended Low Retention	1-200 μ l Low Retention	1-300 μ l Low Retention	100-1250 μ l Low Retention	0.1-10 μ l Filter Reference	
Coding and Certification (see page 35)		Ds,E,N	E,N	E,G,N	E,G,N	E,G,N	D,E,G,M,N,R	D,E,M,R
Pipette Make	Model							
alpha+	Variable Volume	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	100-1000	0.1-2.5, 0.5-10	1-50
	Fixed Volume	2.5, 5, 10	2.5, 5, 10	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	250, 500, 1000	2.5, 5, 10	50
	Multi Channel	0.5-10	0.5-10	5-50, 10-100, 20-200	5-50, 10-100, 20-200, 30-300		0.5-10	
Sartorius (Biohit)	Picus [®] /Nxt Single Channel						0.2-10	
	Picus [®] /Nxt Multi Channel						0.2-10	
	eLINE [®]							
	Tacta/mLNE/Proline+	0.1-3, 0.5-10	0.1-3, 0.5-10	2-20, 10-100, 20-200 (5-100 M/C)	2-20, 10-100, 20-200 (M/C 5-100 30-300)	100-1000		
	Proline [®] 1	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	2-20, 5-50, 10-100, 20-200 (5-50 M/C)	2-20, 5-50, 10-100, 20-200 (M/C 5-50, 50-300)	100-1000		5-50
Eppendorf [®]	Electronic							5-100
	Reference	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10, 2-20 micro	2-20, 10-100, 50-200	2-20, 10-100, 50-200		0.5-10, 2-20	
	Research Pro							5-100
	Research						0.5-10	2-20
	Research Plus	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10, 2-20 micro	2-20, 10-100, 20-200 (M/C 10-100)	2-20, 10-100, 20-200 (M/C 10-100, 30-300)	100-1000		
Gilson	Pipetman						P2, 10	
	Pipetman Ultra						U2, 10	
	Pipetman Classic,G,L	0.2-2, 1-10	0.2-2, 1-10	2-20, 20-100, 50-200	2-20, 20-100, 50-200	100-1000		
Rainin [®]	EDP3							
	EDP1							
	Pipet Lite SL	0.1-2, 0.5-10			2-20, 10-100, 20-200	100-1000		
	Classic							
Thermo Electron Finnpipette [™]	Digital							5-50
	Focus						1-10 (micro)	5-50
	Biocontrol							5-50
	Novus							
	Finnpipette 4500	0.2-2, micro, 0.5-5, micro	0.2-2, micro, 0.5-5, micro	0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50)	0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50, 50-300)	100-1000		
Tip Fit								
<p>We have indicated the tip compatibility with popular brands and models of pipette. Manufacturers can however change their pipette specifications without our knowledge, so it is always best to check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please contact us for advice.</p> <p>Please note that the tip's maximum volume must not be exceeded, regardless of the volume range of your pipette.</p> <p><i>All tips illustrated are actual size unless otherwise stated</i></p>		Filter Tips available	Filter Tips available	Filter Tips available	Filter Tips available			
Loose Non-Sterile	Cat. No.	LP010N	LP010XLN	LP200N		LP1250N		
	Pack Size	1000	1000	1000		1000		
Racked Non-Sterile	Cat. No.				LP300NR			
	Pack Size				10 x 96			
Racked Sterile	Cat. No.					LP010NFRS	LW1065	
	Pack Size					10 x 96	10 x 96	

1. Also labelled as Jencons Sealpette and as Genex.

Low Retention Tips 10-1250 μ l

Tip Description and Volume Range μ l		Non-Filter					
		0.1-10 μ l Micro Ultrafine	1-200 μ l 'Everyday' Bevel	1-200 μ l Bevel	1-200 μ l Reference Bevel	1-200 μ l Bevel	
Coding and Certification (see page 35)		D,E,G,M,R		D,E,M,R	D,E,G,M,R	Ds,E,G	
Pipette Make	Model	Pipette Volume Range μ l					
alpha+	Variable Volume	0.1-2.5, 0.5-10	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	2-20, 5-50, 10-100, 20-200	
	Fixed Volume	2.5, 5, 10	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	20, 25, 40, 50, 100, 200	
	Multi Channel	0.5-10		5-50, 10-100, 20-200	5-50, 10-100, 20-200	5-50, 10-100, 20-200, 30-300	
Sartorius (Biohit)	Picus®/Nxt Single Channel	0.2-10	5-120, 10-300	5-120, 10-300	5-120, 10-300		
	Picus®/Nxt Multi Channel	0.2-10	5-120, 10-300	5-120, 10-300	5-120, 10-300		
	eLINE®	0.2-10	5-120	5-120	5-120		
	Tacta/mLINE/Proline+	0.5-10	20-200	20-200	20-200	2-20, 10-100, 20-200 (5-100 M/C)	
	Proline® ¹		2-200	2-200	2-20	2-20, 5-50, 10-100, 20-200 (5-50 M/C)	
Eppendorf®	Electronic	0.5-10	5-100, 20-200	5-100, 20-200	5-100, 20-200		
	Reference	0.1-2.5, 0.5-10	2-200	2-200	2-200	2-20, 10-100, 50-200	
	Research Pro	0.5-10	5-100	5-100	5-100		
	Research	0.1-2.5, 0.5-10	2-200	2-200	2-200		
	Research Plus	0.5-10	2-20, 10-100, 20-200, (M/C 10-100)	2-20, 10-100, 20-200, (M/C 10-100)	2-20, 10-100, 20-200, (M/C 10-100)	2-20, 10-100, 20-200 (M/C 10-100)	
Gilson	Pipetman	P2, 10	P20, 100, 200	P20, 100, 200	P20, 100, 200		
	Pipetman Ultra	U2, 10	U20, 100, 200	U20, 100, 200	U20, 100, 200		
	Pipetman Classic,G,L	0.2-2, 1-10	2-200, 10-200, 20-200, 50-200, (M/C 1-20, 20-200)	2-200, 10-200, 20-200, 50-200, (M/C 1-20, 20-200)	2-200, 10-200, 20-200, 50-200, (M/C 1-20, 20-200)	2-20, 20-100, 50-200	
Rainin®	EDP3		2-200	2-200	2-200		
	EDP1		2-200	2-200	2-200		
	Pipet Lite SL	0.1-2, 0.5-10	2-20, 10-100, 20-200	2-20, 10-100, 20-200	2-20, 10-100, 20-200	2-20, 10-100, 20-200	
	Classic						
Thermo Electron Finnpiptette™	Digital	0.2-10, 0.5-10	2-200	2-200	2-200		
	Focus	0.3-10	1-100	1-100	1-100		
	Biocontrol	0.5-10	5-200	5-200	5-200		
	Novus	1-10	1-100	1-100	1-100		
	Finnpiptette 4500					0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50)	
Tip Coding and Certification Key available - see page 35  Fastrak® tip refill available - see pages 38-39 All tips illustrated are actual size unless otherwise stated		 Filter Tips available Fastrak® available	 Filter Tips available Fastrak® available	 Filter Tips available Fastrak® available	 Filter Tips available Fastrak® available	 Filter Tips available Fastrak® available	
Loose Non-Sterile		Cat. No. Pack Size	LW1154 1000	ED0200 1000	LW6361 1000	LW6391 1000	LP200BVY 1000
Racked Non-Sterile		Cat. No. Pack Size	LW1126 12 x 96		LW6360 10 x 96		LP200BVRY 10 x 96
Racked Sterile		Cat. No. Pack Size	LW1136 12 x 96		LW6365S 10 x 96	LW6393S 10 x 96	LP200BVRYS 10 x 96

1. Also labelled as Jencons Sealpette and as Genex.

Liquid Handling - Pipette Tips



Tip Description and Volume Range μl		100-1000 μl 'Everyday' Ultrafine	100-1000 μl	100-1000 μl Ultrafine	100-1000 μl Reference Ultrafine
Coding and Certification (see page 35)			E,G	D,E,M,R	D,E,M,R
Pipette Make	Model	Pipette Volume Range μl			
alpha+	Variable Volume	100-1000	100-1000	100-1000	100-1000
	Fixed Volume	250, 500, 1000	250, 500, 1000	250, 500, 1000	250, 500, 1000
	Multi Channel			100-1000	100-1000
Sartorius (Biohit)	Picus®/Picus®NxT Single Channel	50-1000		50-1000	50-1000
	Picus®/Picus®NxT Multi Channel				
	eLINE®	50-1000		50-1000	50-1000
	Tacta/mLINE®/Proline Plus®	100-1000	100-1000	100-1000	100-1000
	Proline® ¹		100-1000		
Eppendorf®	Electronic				
	Reference	100-1000		100-1000	100-1000
	Research Pro	50-1000		50-1000	50-1000
	Research	100-1000		100-1000	100-1000
	Research Plus	M/C 30-300	100-1000	100-1000	100-1000
Gilson	Pipetman	P1000		P1000	P1000
	Pipetman Ultra	U1000		U1000	U1000
	Pipetman Classic,G,L	20-1000	200-1000	20-1000	20-1000
Rainin®	EDP3	100-1000		100-1000	100-1000
	EDP1	100-1000		100-1000	100-1000
	Pipet Lite SL	100-1000	100-1000	100-1000	100-1000
	Classic				
Thermo Electron Finnpipette™	Digital				
	Focus	100-1000		100-1000	100-1000
	Biocontrol				
	Novus	100-1000		100-1000	100-1000
	Finnpipette 4500		100-1000		
Tip Coding and Certification Key available - see page 35   All tips illustrated are actual size unless otherwise stated					
					Filter Tips available
Loose Non-Sterile		Cat. No. ED1000 Pack Size 1000	Cat. No. LP1000B Pack Size 1000	Cat. No. LW6471 Pack Size 1000	Cat. No. LW6481 Pack Size 1000
Racked Non-Sterile		Cat. No. Pack Size	Cat. No. Pack Size	Cat. No. LW6470 Pack Size 6 x 96	Cat. No. Pack Size
Racked Sterile		Cat. No. Pack Size	Cat. No. Pack Size	Cat. No. LW6475S Pack Size 6 x 96	Cat. No. Pack Size

1. Also labelled as Jencons Sealpette and as Genex.

Non-Filter Pipette Tips 1000 μl -10ml

1000-5000µl Finnpipette	1000-5000µl Gilson Reference	1000-5000µl Eppendorf Sartorius	1000-10,000µl Universal Reference	1000-10,000µl Gilson Reference	Tip Description and Volume Range µl	
M,R	D,E,G,R	D,E,G,R	D,E,G,R	Ds,E	Coding and Certification (see page 35)	
Pipette Volume Range µl					Model	Pipette Make
		500-5000		1000-10,000	Variable Volume	alpha+
		2000, 5000		10,000	Fixed Volume	
					Multi Channel	
		100-5000			Picus®/Nxt Single Channel	Sartorius (Biohit)
					Picus®/Nxt Multi Channel	
		100-5000			eLINE®	
		500-5000	1000-10,000		Tacta/mLINE®/Proline+	Eppendorf®
		1000-5000			Proline® ¹	
					Electronic Reference	
		100-5000			Research Pro	Eppendorf®
		500-5000	1000-10,000		Research	
					Research Plus	
	P5000		P10ml	P10ml	Pipetman	Gilson
	U5000				Pipetman Ultra	
					Pipetman Classic,G,L	
					EDP3	Rainin®
					EDP1	
					Pipet Lite SL	
					Classic	Thermo Electron Finnpipette™
					Digital	
					Focus	
					Biocontrol	Thermo Electron Finnpipette™
					Novus	
					Finnpipette 4500	
						
1-5ml	Filter Tips available	Filter Tips available	Filter Tips available			
LW1062 250	LW1127 250	LW7829 250	LW7833 200	LP10000B 200	Cat. No. Pack Size	 Loose Non-Sterile
	LW1129 / LW1122 2 x 50 / 10 x 50				Cat. No. Pack Size	 Racked Non-Sterile
	LW1128 2 x 50	LW7828 2 x 50	LW7835 2 x 25		Cat. No. Pack Size	 Racked Sterile

Tip Fit

We have indicated the tip compatibility with popular brands and models of pipette. Manufacturers can however change their pipette specifications without our knowledge, so it is always best to check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please contact us for advice.

Please note that the tip's maximum volume must not be exceeded, regardless of the volume range of your pipette.

All tips illustrated are actual size unless otherwise stated



Liquid Handling - Pipette Tips

1000-5000µl Aerogard® Gilson Reference	1000-5000µl Aerogard® Sartorius/ Eppendorf Ref.	1000-10,000µl Aerogard® Universal Reference	Tip Description and Volume Range µl	
D,E,G,R	D,E,G,R	D,E,G,R	Coding and Certification (see page 35)	
Pipette Volume Range µl			Model	Pipette Make
	500-5000		Variable Volume	alpha+
	2000, 5000		Fixed Volume	
			Multi Channel	
	100-5000	500-10,000	Picus®/Picus®N&T Single Channel	Sartorius (Biohit)
			Picus®/Picus®N&T Multi Channel	
	100-5000		eLINE®	
	500-5000	1000-10,000	Tacta/mLINE®/Proline Plus®	
	1000-5000		Proline® 1	Eppendorf®
			Electronic Reference	
	100-5000	1000-10,000	Research Pro	
	500-5000		Research	
			Research Plus	
P5000		P10ml	Pipetman	Gilson
U5000		U10ml	Pipetman Ultra	
			Pipetman Classic,G,L	
			EDP3	Rainin®
			EDP1	
			Pipet Lite SL	
			Classic	Thermo Electron Finnpipette™
			Digital	
			Focus	
			Biocontrol	
			Novus Finnpipette 4500	

Tip Fit

M/C = Multichannel

We have indicated the tip compatibility with popular brands and models of pipette. Manufacturers can however change their pipette specifications without our knowledge, so it is always best to check tip fit with your particular pipettes. Likewise, if your pipette is not shown in the tip fit tables, please contact us for advice.

Please note that the tip's maximum volume must not be exceeded, regardless of the volume range of your pipette.

All tips illustrated are actual size apart from LW7836 which is 80% actual size

LW1124	LW7832	LW7836	Cat. No.	 S	Racked Sterile
2 x 50	2 x 50	2 x 25	Pack Size		

Aerogard™ Filter Tips 1000µl-10ml

Keeping **You** Up to Date

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Liquid Handling - Pipette Tips



Tip Description and Volume Range μ l		Cellsaver Tips			Gel Loading Tips									
		100-1000 μ l Aerogard® Cell Saver	1-200 μ l Cell Saver	101-1000 μ l Cell Saver	0.1-10 μ l Gel Tip Round*	10 μ l Gel Tip Flat 0.17mm	10 μ l Gel Tip Flat 0.37mm	10 μ l Gel Tip Round 0.57mm						
Coding and Certification (see page 35)		D,E,M,R	E,G,R	E,G,R	D,E,G,R	D,E,G,R	D,E,G,R							
Pipette Make	Model	Pipette Volume Range μ l												
alpha+	Variable Volume	100-1000	2-20, 5-50, 10-100, 20-200	100-1000	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10						
	Fixed Volume	250, 500, 1000	20, 25, 40, 50, 100, 200	250, 500, 1000	2.5, 5, 10	2.5, 5, 10	2.5, 5, 10	2.5, 5, 10						
	Multi Channel	100-1000	5-50, 10-100, 20-200											
Sartorius (Biohit)	Picus®/Picus®Nxt Single Channel													
	Picus®/Picus®Nxt Multi Channel													
	eLINE®	50-1000												
	Tacta		2-20, 10-100, 20-200 (5-100 M/C)	100-1000	0.5-10									
	mLINE®/Proline Plus®	100-1000	2-20, 10-100, 20-200 (5-100 M/C)	100-1000	0.5-10									
Proline® ¹	200-1000	2-20, 5-50, 10-100, 20-200 (5-50 M/C)	100-1000		0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10							
Eppendorf®	Electronic													
	Reference	100-1000	2-20,10-100, 50-200		0.1-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10						
	Research Pro	50-1000												
	Research	100-1000			0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10	0.1-2.5, 0.5-10						
	Research Plus	100-1000	2-20, 10-100,20-200 (M/C 10-100)	100-1000										
Gilson	Pipetman	200-1000			P2, 10	P2, 10	P2, 10	P2, 10						
	Pipetman Ultra	200-1000			U2, 10									
	Pipetman Classic,G,L	200-1000	2-20, 20-100, 50-200	200-1000										
Rainin®	EDP3	100-1000												
	EDP1	100-1000												
	Pipet Lite SL	100-1000	2-20,10-100, 20-200	100-1000		0.2-2, 0.5-10	0.2-2, 0.5-10	0.2-2, 0.5-10						
	Classic				1-10									
Thermo Electron Finnpipette™	Digital	100-1000												
	Focus	200-1000												
	Biocontrol	100-1000												
	Novus	100-1000												
	Finnpipette 4500		0.5-5, 2-20, 5-50, 10-100, 20-200, (M/C 5-50)	100-1000										
Tip Coding and Certification Key available - see page 35														
Loose Non-Sterile	Cat. No.								LP200W	LP1000W	LW1103			
	Pack Size								1000	1000	1000			
Racked Non-Sterile	Cat. No.											GL01017NTR	GL01037NTR	GL01057NTR
	Pack Size											2 x 96	2 x 96	2 x 96
Racked Sterile	Cat. No.								ZP1250CS			GL01017NTRS	GL01037NTRS	GL01057NTRS
	Pack Size								6 x 96			2 x 96	2 x 96	2 x 96

Robotic Tips

Tips for automated workstations are subject to stricter tolerances than standard pipette tips. Alpha robotic tips are engineered to the exact specification of the instruments for which they are designed.

They are manufactured from medical grade, virgin polypropylene and undergo rigorous QC testing to assure you of the highest levels of purity and performance.

Our extensive range covers numerous instruments and tip formats. Some products are ex-stock while others are custom-made.

To ensure you make the right choice for your application and that we provide efficient supply, please contact us to discuss your requirements.

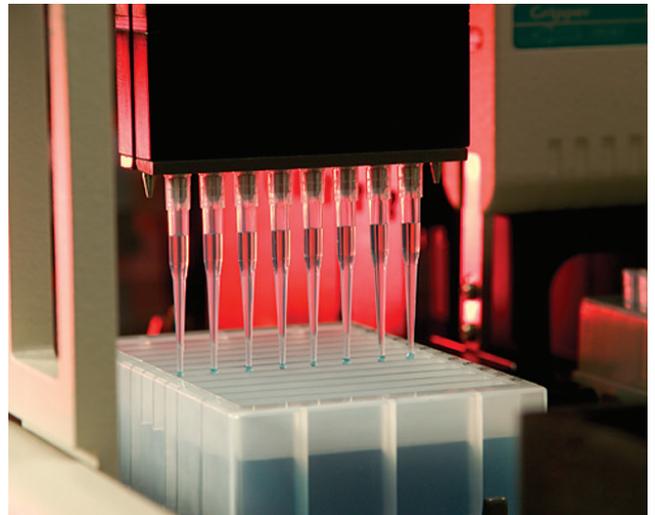
Robotic Tips for Beckman Biomek®/Multimek™ Workstations

This range has been developed for the Biomek® and Multimek™ workstations fitted with the AP96 liquid handling head. Superior polished moulds result in flash-free tips with minimal liquid retention. They are lot tested on the original manufacturer's instruments and are designed to require no hardware or software adjustments prior to use.



Tips for each robot are available in 3 different volumes in sterile or non-sterile racks. In most cases, we also offer a filter version for added sample and instrument protection.

All tips are certified free of DNase, RNase, human DNA and PCR inhibitors. Sterile tips are also certified free of pyrogens.



For Biomek® FX, NX, 3000 and Multimek 96 Workstations

Tip Volume		Software Designation		Racked Non-Sterile
20µl		AP96 Head 10	Cat. No.	LW1501R
			Pack Size	10 x 96
50µl		AP96 Head 10	Cat. No.	LW1548R
			Pack Size	10 x 96
250µl		AP96 Head 10	Cat. No.	LW1504R
			Pack Size	10 x 96

All tips illustrated are actual size unless otherwise stated

Robotic Tips for Tecan/Corbett Qiagen/Perkin Elmer Workstations

These tips easily dispense small volumes with very high precision. Both conductive (black) and non-conductive (natural) options are available.

The conductive tips are manufactured using a composite of conductive carbon black and polypropylene which carries liquid-level sensing properties.

Minimal immersion is guaranteed as the tip filling height is recognised by the system.

This ensures greater accuracy during aspirating and dispensing steps.



STERILE



NON-STERILE

For Tecan Genesis®, Freedom EVO®, MiniPrep®, Cavro® workstations and PerkinElmer/Packard MultiPROBE® II HT, MultiPROBE® II HT EX workstation

Tip Volume			Racked Non-Sterile	Racked Filter Sterile
10µl		Cat. No.	RT1577R	
		Pack Size	10 x 96	
50µl		Cat. No.	RT1582R	RT1585RS-BU
		Pack Size	10 x 96	12 x 2 x 96
200µl		Cat. No.	RT1586R	
		Pack Size	10 x 96	
200µl		Cat. No.	RT1589R	RT1592RS-BU
		Pack Size	10 x 96	12 x 2 x 96
1000µl		Cat. No.	RT1593R	
		Pack Size	10 x 96	
1000µl		Cat. No.	RT1596R	RT1599RS-BU
		Pack Size	10 x 96	12 x 2 x 96

All tips illustrated are actual size unless otherwise stated

Liquid Handling - Pipette Tips

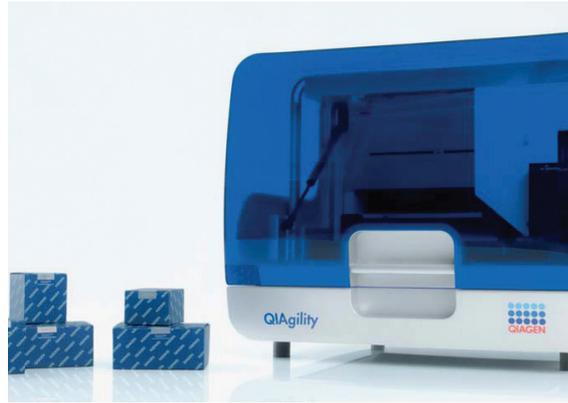
Robotic Tips for Qiagen Workstations

These tips are designed for the following workstations:

Qiagen Biorobots: Model 3000 • Model 8000
Model 9600 • Model 9604 • Rosys • Colibri

QIAgility (formerly Corbett CAS-1200)

We offer a full range of conductive tips including non-sterile, sterile and filtered. Non-conductive tips other than the 1100µl filter tip are available on request.



STERILE

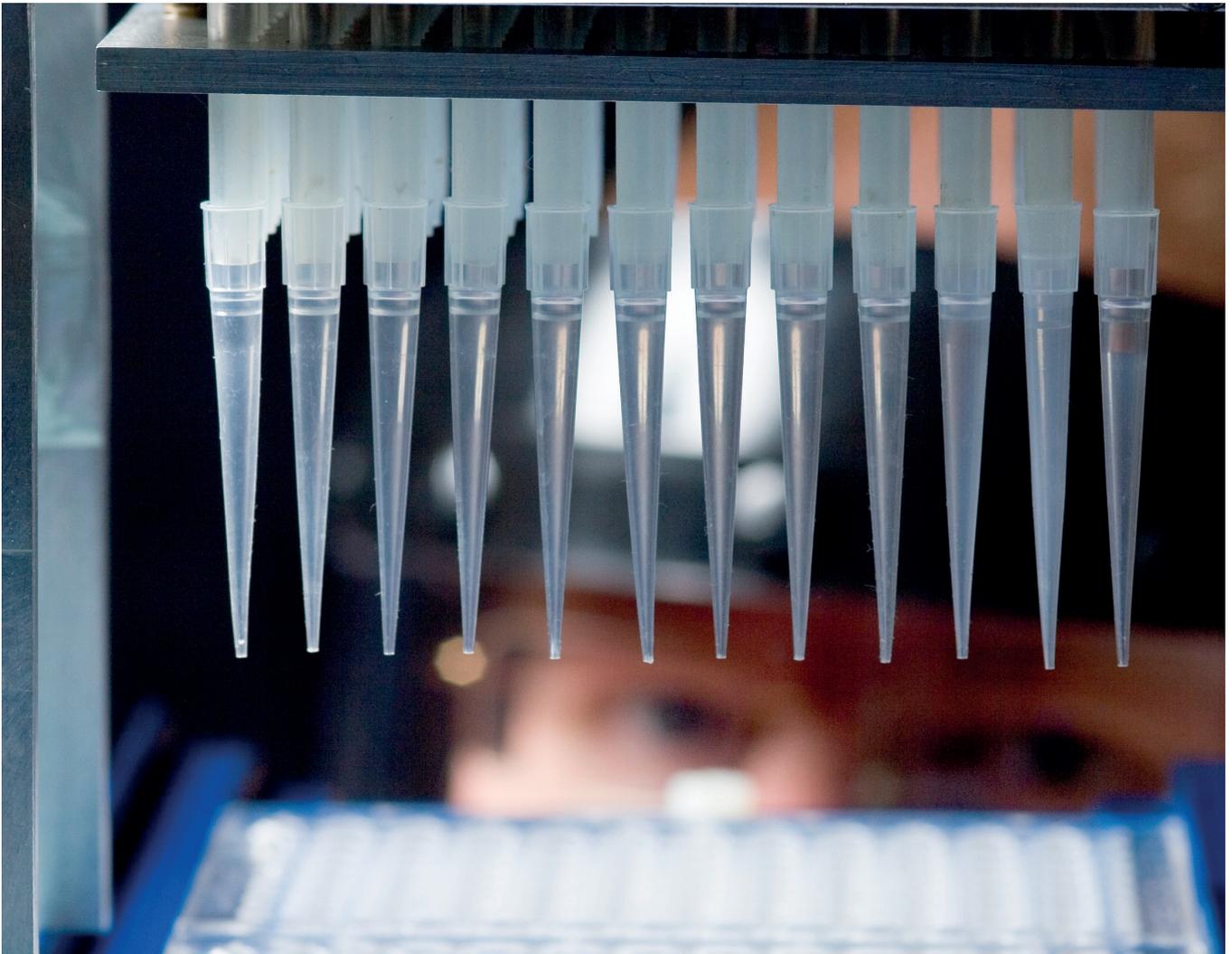


NON-STERILE

For Qiagen Biorobots 3000, 8000, 9600, 9604, Rosys and Colibri Workstations

Tip Volume			Racked Non-Sterile	Racked Filter Sterile
300µl		Cat. No.	RT152R	RT1555RS-BU
		Pack Size	10 x 96	12 x 2 x 96
1100µl		Cat. No.	RT153R	RT1557RS-BU
		Pack Size	10 x 96	12 x 2 x 96

All tips illustrated are actual size unless otherwise stated



Robotic Tips for Hamilton Microlab Star Line Workstations

These conductive tips are produced under clean room conditions and are tested free from DNase, RNase, ATP and Pyrogens. Each lot is tested according to a rigorous quality management system to ensure reproducible results in your application.



STERILE



NON-STERILE

For Hamilton Microlab Star Line workstations

Tip Volume			Blister Non-Sterile	Blister Filter Non-sterile	Stack Rack
10µl		Cat. No.	RT15100	RT15101	
		Pack Size	16 x (5 x 96)	16 x (5 x 96)	
50µl		Cat. No.	RT15105	RT15106	RT15109
		Pack Size	16 x (5 x 96)	16 x (5 x 96)	2x(4x5 x 96)
300µl		Cat. No.	RT15110	RT15111	RT15114
		Pack Size	16 x (5 x 96)	16 x (5 x 96)	2x(4x5 x 96)
1000µl		Cat. No.	RT15115	RT15116	
		Pack Size	10 x (5 x 96)	10 x (5 x 96)	

Robotic Tips for Beckman Coulter and Olympus Workstations

Modern healthcare institutes require the highest standards from their diagnostic partners including those specialising in clinical chemistry, immunochemistry or blood grouping applications. These tips have been developed for clinical diagnostic instruments where a smooth production flow and high quality results are essential to patient care.



NON-STERILE

For Beckman Coulter Automate 1250/2550 and Olympus OLA2500 workstations

Tip Volume			Racked Non-Sterile
1200µl		Cat. No.	RT15000
		Pack Size	8 x 140

All tips illustrated are actual size unless otherwise stated

Agony in the Hood?

Get Relief with the Unique Drummond Pipet-Aid® XL

If you are pipetting large volumes of liquid, over prolonged periods of time, in a fume cupboard or flow hood, you need to use the right instrument to ensure your safety and comfort.

Pipetting controllers, in combination with serological pipettes, should be the simplest choice. However, trying to get the long serological pipette into a bottle or beaker can sometimes be quite a challenge when it needs to be done under the sash of the hood.

Over time, the strain to your muscles, ligaments and joints can lead to stress related disorders such as Repetitive Strain Injury (RSI).



DRUMMOND
SCIENTIFIC COMPANY

Try the unique Drummond Pipet-Aid® XL Pipetting Controller for a more comfortable experience

- The longer, lightweight handle allows a lower arm position minimising head, neck and upper arm fatigue in fume cupboards
- The adjustable sliding hand rest gives maximum comfort and stability, especially when working under a flow hood

See page 19

Quality Consumables for Sample Collection, Transport, Storage and Processing

The quality of analytical results is often dependent upon how samples have been collected, transported, stored and processed, prior to being tested.

Using high quality consumables that maintain sample integrity, ensure no assay interference, prevent leakage and comply with transport regulations is essential.

Alongside our established range including a wide variety of sample tubes and containers we now have many products to support your additional sample handling needs.

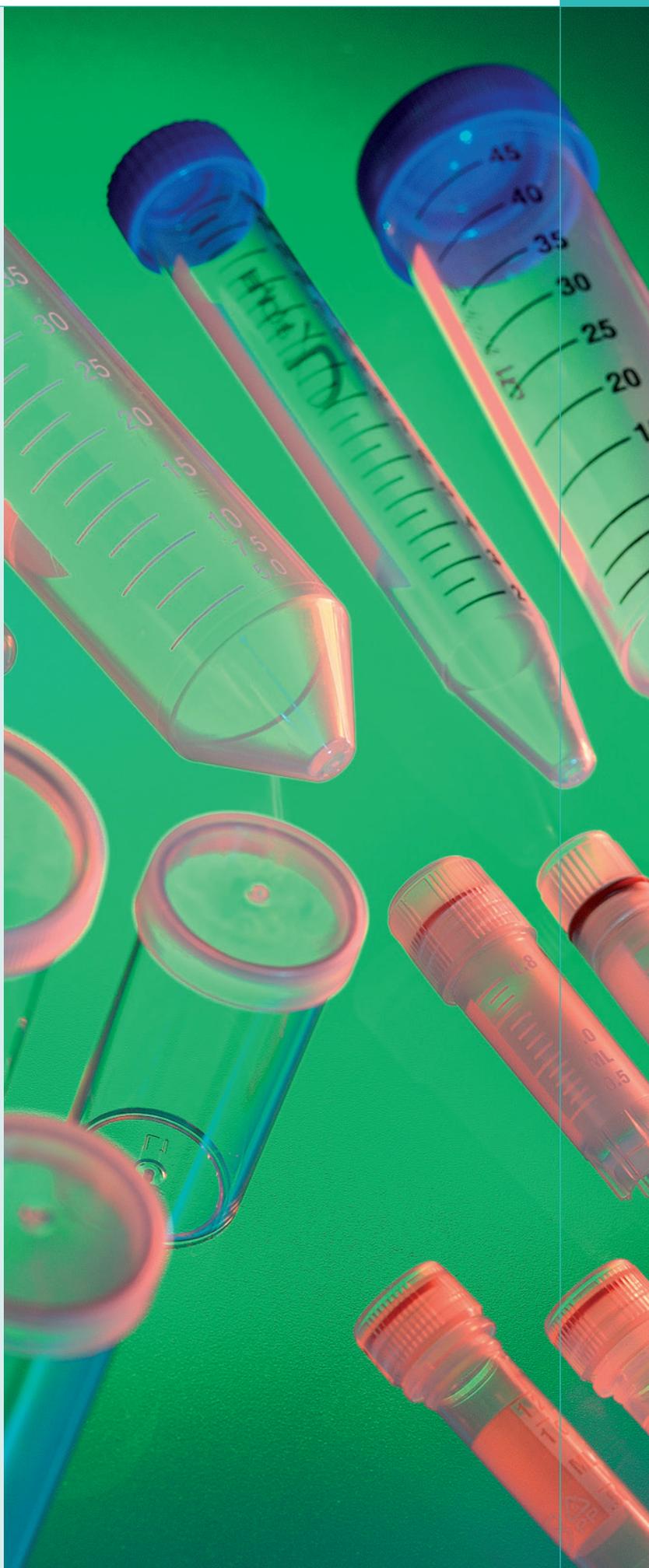
What's New?

- ProtectR® CO₂ Resistant Tubes
- EveryDay Specimen Containers
- 5 and 10ml Transport Tubes
- Micro Slide Containers

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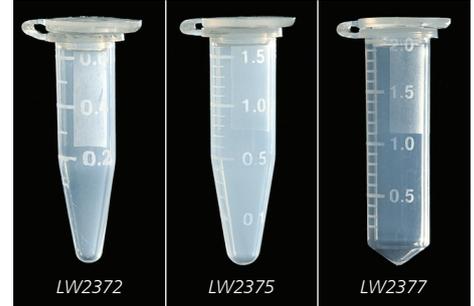


Tubes for Sample Processing and Storage

Flip-Cap Microcentrifuge Tubes

APEX® 'Tough' Microcentrifuge Tubes

APEX® 'Tough' Microcentrifuge Tubes are great all-rounders. These polypropylene tubes have a centrifuge rating of 20,000g and temperature range of -90 to 121C making them suitable for a wide range of techniques. The secure closure makes these tubes ideal for boiling applications.



'Tough' Microcentrifuge Tubes		
Catalogue Number	Description	Pack Size
LW2372*	0.5ml Microcentrifuge Tube Natural	1000
LW2375*	1.5ml Microcentrifuge Tube Natural	2 x 500
LW2377	2.0ml Microcentrifuge Tube Natural	2 x 500
LW2377AS	2.0ml Microcentrifuge Tube Assorted	2 x 500

*Other colours available. Please see our website.



APEX® 'Soft-Release' Microcentrifuge Tubes

Manufactured from UltraClear® copolymer polypropylene, the APEX® 'Soft-Release' range of tubes is designed with a wide-opening flange for easy, one-handed opening. The reduced closure resistance of these tubes makes processing large batches of samples that much easier.

Rated to 20,000g.

Not suitable for boiling applications.



'Soft-Release' Microcentrifuge Tubes		
Catalogue Number	Description	Pack Size
LW2455*	1.5ml 'Soft-Release' Microcentrifuge Tube Natural	500

*Other colours available. Please see our website.

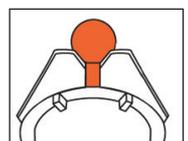


APEX® 'True-Lock' Microcentrifuge Tubes

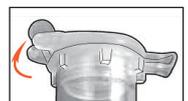
APEX® 'True-Lock' Microcentrifuge Tubes have a secure locking mechanism to provide extra security for your samples. The innovative CLIKLOK™ design includes a clasp, which can be bent upward to secure the cap and prevents accidental opening of these tubes. Certified RNase, DNase and DNA free and rated to 20,000g APEX® 'True-Lock' tubes are suitable for a wide range of applications.



'True-Lock' Microcentrifuge Tube		
Catalogue Number	Description	Pack Size
LW2486	1.5ml 'True-Lock' Microcentrifuge Tube	500



Locking mechanism preventing accidental opening of lid



Flip-Cap Microcentrifuge Tubes

APEX® 'NoStick'™ Microcentrifuge Tubes

A perfect alternative to home-made siliconised tubes and ideal for RNA and DNA work. The proprietary formulation of homopolymer polypropylene creates a 'No Stick' tube with extra-low adhesion, eliminating the need to coat the tube with any other agent. It is therefore completely non-reactive to your samples. Rated to over 20,000g and certified free from RNase, DNase and DNA.



'NoStick'™ Hydrophobic Microcentrifuge Tubes		
Catalogue Number	Description	Pack Size
LW2400	0.5ml 'NoStick' Microcentrifuge Tube Natural	500
LW2410*	1.5ml 'NoStick' Microcentrifuge Tube Natural	250
LW2420	2.0ml 'NoStick' Microcentrifuge Tube Natural	250

*Assorted packs available, add suffix: AS=assorted.

APEX® 'Mini' Microcentrifuge Tubes

The APEX® 'Mini' Microcentrifuge tubes are designed for applications using smaller volumes and certified RNase and DNase free.

The 0.25ml tube is manufactured from autoclavable polypropylene and has a centrifuge rating of 30,000g. The 0.4ml tube is made with low density polyethylene which is soft and can be easily cut to facilitate pellet removal.



'Mini' Microcentrifuge Tubes		
Catalogue Number	Description	Pack Size
LW2078	0.25ml Microcentrifuge Tube Natural	1000
LW2070	0.40ml Microcentrifuge Tube Natural	1000

Which range is best for me?

Feature	Tough	Soft-Release	True-Lock	NoStick	Mini 0.25ml	Mini 0.40ml
Volume	0.5, 1.5, 2.0ml	1.5ml	1.5ml	0.5, 1.5, 2.0ml	0.25ml	0.40ml
Spin Rating	20,000g	20,000g	20,000g	20,000g	30,000g	25,000g
Colours	Yes	Yes	No	Yes	No	No
Amber	Yes	Yes	No	No	No	No
DNase, RNase & DNA free	Yes	Yes	Yes	Yes	No*	No*
Autoclavable	Yes	Yes	Yes	Yes	Yes	No
Material	PP	PP	PP	PP	PP	LDPE

*DNase and RNase free only

PP = Polypropylene LDPE = Low Density Polyethylene

Screw-Cap Microcentrifuge Tubes

APEX® Screw-Cap Microcentrifuge Tubes



CP5910 CP5911 CP5912 CP5913 CP5914 CP5915

APEX® Screw-Cap Microcentrifuge Tubes are ideal for sample collection, processing and storage. Manufactured from virgin polypropylene, this range of tubes has low-binding properties and is certified free from RNase, DNase, human DNA and PCR inhibitors. Both cap and tube are produced from the same material and share expansion coefficients to provide uniform rates of expansion and contraction in response to temperature change, offering a high quality leak-resistant design.



LAL testing is only performed on sterile caps and tubes, therefore only sterile product is certified pyrogen free.

APEX® screw-caps are available in a multitude of colours for convenient colour coding of samples or reagents. APEX® SafeGrip caps are also available for use with the APEX® Screw-Cap Microcentrifuge Tube range.

Caps featured on this page do not fit APEX® White Label tubes.

Screw-Cap Microcentrifuge Tubes

Catalogue Number	Description	Pack Size
Screw-Cap Microcentrifuge Tubes, non-sterile, without cap		
CP5910	0.5ml Conical	500
CP5911	1.5ml Conical	500
CP5912	2.0ml Conical	500
CP5913*	0.5ml Free-Standing	500
CP5914*	1.5ml Free-Standing	500
CP5915*	2.0ml Free-Standing	500
Screw-Cap Microcentrifuge Tubes, sterile, including fitted tethered cap		
CP5921	1.5ml Conical	500
CP5922	2.0ml Conical	500
CP5923	0.5ml Free-Standing	500
CP5924	1.5ml Free-Standing	500
CP5925	2.0ml Free-Standing	500
Screw-Cap Microcentrifuge Tubes, sterile, including fitted standard cap		
CP5930	0.5ml Conical	500
CP5931	1.5ml Conical	500
CP5932	2.0ml Conical	500
CP5933	0.5ml Free-Standing	500
CP5934	1.5ml Free-Standing	500
CP5935	2.0ml Free-Standing	500
Screw-Caps only, non-sterile		
CP5940N*	Screw-Cap, Natural	500
Tethered Screw-Caps only, non-sterile		
CP5950AS*	Screw-Cap, Assorted	500

* Other colours available. Please see our website.



CP5940AS

(assorted colours - please see our website)

APEX® 'SafeGrip' Screw Caps



CP5960AS (representative image)

APEX® 'SafeGrip' screw-caps are specially moulded from tough polypropylene to provide a superior grip – ideal when you need to open tubes while wearing gloves!

Unlike traditional screw-caps with a fitted O-ring, 'SafeGrip' screw-caps have an integral seal moulded into the cap. The inert thermoplastic elastomer seal used in this unique design eliminates the problem of loose O-rings which can detach from the cap. Available in natural, white or various colours, 'SafeGrip' screw-caps are certified free from RNase, DNase, DNA and PCR inhibitors.

'SafeGrip' Screw Caps

Catalogue Number	Description	Pack Size
CP5960N*	Screw-Cap, Natural	500

* Other colours available. Please see our website.

Screw-Cap Microcentrifuge Tubes

APEX® 'White Label' Screw-Cap Microcentrifuge Tubes



CP5316WL CP5328WL CP5314WL CP5318WL CP5321WL

The APEX® 'White Label' Microcentrifuge Tubes offer the advantage of a distinct, white labelling area. As with the rest of the APEX® range, the cap and tube are manufactured from the same materials, meaning both the cap and tube will expand and contract at the same rate in response to temperature changes (e.g. during thawing or freezing), minimising the possibility of leakage.



A range of coloured caps or natural caps that can be used with cap inserts enables effective colour coding for your samples.



CP5326 (representative image)

'White Label' Microcentrifuge Tubes		
Catalogue Number	Description	Pack Size
'White Label' Microcentrifuge Tubes, Non-sterile, Without Cap		
CP5316WL	0.5ml Free-standing	1000
CP5314WL	1.5ml Conical	1000
CP5321WL	2.0ml Conical	1000
CP5328WL	1.5ml Free-standing	1000
CP5318WL	2.0ml Free-standing	1000
'White Label' Microcentrifuge Tubes, Sterile, including Insert Compatible Cap		
CP5317WL	0.5ml Free-Standing	500
CP5315WL	1.5ml Conical	500
CP5322WL	2.0ml Conical	500
CP5329WL	1.5ml Free-Standing	500
CP5320WL	2.0ml Free-Standing	500
'White Label' Microcentrifuge Tubes, Sterile, Tethered Cap		
CP5335WL	1.5ml Conical Tethered Cap	500
CP5339WL	1.5ml Free-Standing Tethered Cap	500

Caps for 'White Label' Microcentrifuge Tubes		
Catalogue Number	Description	Pack Size
CP5326N	Flat-Cap Natural (will not accept insert)*	1000
CP5325N	Screw-Cap Natural, Insert Compatible*	1000
CP3346R	Coloured Cap Insert - Red*	500

*Other colours available. Please see our website.



CP5325N

CP3346

(representative image)

Which range is best for me?

Feature	APEX® Range	APEX® 'White Label' Range
Volume Available	0.5, 1.5, 2.0ml	0.5, 1.5, 2.0ml
Spin Rating	20,000g	17,000g
Base Types	Conical and Free-Standing	Conical and Free-Standing
Colour Caps	Yes	Yes
Coloured Cap Inserts	No	Yes
Temperature Range	-90C to +121C	-90C to +121C
O-Ring Material	Ethylene / Polypropylene	Silicone
Amber Available	Yes (Please enquire)	No
Cap and Tube made of same material	Yes	Yes
Tethered Caps Available	Yes	No
DNase, RNase & DNA free	Yes	Yes
Label	No	Yes
95kPa Compliant	No	Yes

APEX® 'White Label' tubes are not compatible with APEX® 'SafeGrip' caps

Screw-Cap Microcentrifuge Tubes

APEX® 'Tamper-Evident' Screw-Cap Microcentrifuge Tubes

Ideal for all applications requiring a tamper-evident seal, the Alpha Laboratories range of APEX® 'Tamper-Evident' Screw Cap Microcentrifuge Tubes also has a multitude of benefits when used in your laboratory. They are ideal for freezer storage, boiling applications, centrifugation, etc. and will fit most standard microcentrifuge rotors.



95kPa

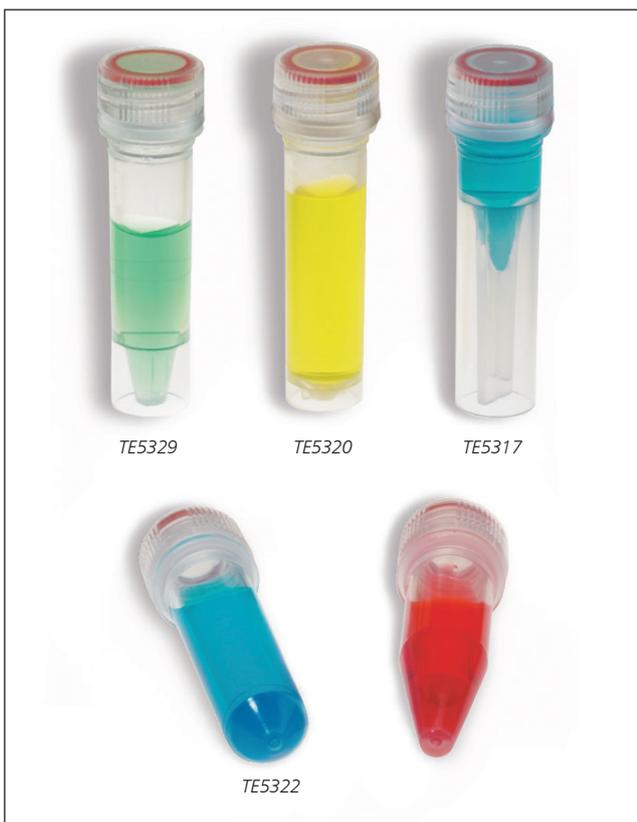
When the cap is screwed onto the tube, the tamper-evident sealing ring is automatically placed. When unscrewed, the ring is detached from the cap and remains in its position, showing clearly that the tube was opened.

Both the caps and the tubes are manufactured from the same, durable polypropylene so will expand and contract at the same rate, offering a reliable seal.

Additional 'Tamper-Evident' caps are also available.

Key Features:

- Rated to 17,000g
- Temperature Range: -196C to +121C
- Silicone O-ring



'Tamper-Evident' Screw-Cap Microcentrifuge Tubes

Catalogue Number	Description	Pack Size
'Tamper-Evident' Screw-Cap Microcentrifuge Tubes and caps, non-sterile		
TE5336	0.5ml Free-Standing Graduated	1000
TE5334	1.5ml Conical Graduated	1000
TE5341	2.0ml Conical Graduated	1000
TE5348	1.5ml Free-Standing Graduated	1000
TE5338	2.0ml Free-Standing Graduated	1000
'Tamper-Evident' Screw-Cap Microcentrifuge Tubes with cap, loosely assembled, sterile		
TE5317	0.5ml Free-Standing Non-Graduated	500
TE5322	2.0ml Conical Non-Graduated	500
TE5329	1.5ml Free-Standing Non-Graduated	500
TE5329WL	1.5ml Free-Standing Graduated	500
TE5320	2.0ml Free-Standing Non-Graduated	500

'Tamper-Evident' Caps

Catalogue Number	Description	Pack Size
TE5326N	Tamper-Evident Cap	1000

5ml, 15ml and 50ml Centrifuge Tubes

There are three ranges of centrifuge tubes that are available from Alpha Laboratories. Our 5ml range is ideal for those in-between sample volumes where a 2ml microcentrifuge tube is too small but a 15ml tube is too large. SuperClear™ 15 and 50ml tubes are designed for more demanding molecular biology applications whilst the Apex 'Essential' range offers excellent value for everyday centrifugation and storage.

5ml Centrifuge Tubes

When your sample size is somewhere between 2 and 5ml, the 5ml Conical Base Midi Centrifuge Tubes are the perfect intermediate volume solution. Featuring an easy-to-open, flat, frosted cap and a large frosted writing area, they ensure easy sample labelling and identification.

Midi Centrifuge tubes are 56.6mm in height and graduated at every 0.25ml for more accurate volume estimation. The tube diameter is 19mm, the same as standard 15ml centrifuge tubes, making them compatible with many standard centrifuge rotors. The tubes can be centrifuged to 21000 rcf.

Made from high grade polypropylene, they have undergone rigorous functional testing, ensuring their suitability for a wide variety of applications.

- Supplied non-sterile or sterile (e-beam irradiation)
- Can be autoclaved at 121C and 15psi for up to 20 minutes
- All tubes are certified RNase, DNase, DNA, Pyrogen and PCR Inhibitor free
- The shorter height of the tube provides increased protection against contamination as long pipette barrels do not need to be inserted into the tube when aspirating or dispensing samples
- Three colour options are available – natural, assorted colours and also amber tubes for use with light-sensitive samples
- The Midi Centrifuge Tubes are supplied in handy, resealable packs



5ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
FT0050NT	Centrifuge Tube 5ml Natural Non-sterile	21,000	2x100
FT0050NTS	Centrifuge Tube 5ml Natural Sterile	21,000	4x50
FT0050AS	Centrifuge Tube 5ml Assorted Colours Non-sterile	21,000	4x50
FT0050AMS	Centrifuge Tube 5ml Amber Sterile	21,000	4x50



SuperClear™ Centrifuge Tubes

SuperClear™ tubes are designed for more demanding molecular biology applications whilst the APEX® 'Essential' range offers excellent value for everyday centrifugation and storage.



SuperClear™ tubes are made from a unique non-cytotoxic medical grade resin that is clear and very durable, making it possible to spin these tubes at 20,000g for 50ml tubes and 17,000g for 15ml tubes.

They include large, white, solvent-resistant labelling areas and black, easy to read graduations.

The SuperClear tubes have an easy to label flat cap design that includes an integral sealing ring. The caps allow you to seal the tubes to an evaporation seal with a $\frac{3}{4}$ turn for one-handed operation. A final additional $\frac{1}{4}$ turn will seal them liquid tight.

SuperClear™ tubes are available in sterile fibre racks, and sterile or non-sterile bags.

All our sterile products use medical grade packaging and are radiation sterilised following a validated ISO 11137 method.

SuperClear centrifuge tubes also excel in their environmental performance. Made in waste-free moulds and printed without V.O.C. (volatile organic compound) pollutants these tubes are environmentally responsible.

- Certified DNA, DNase, RNase, endotoxin and pyrogen free
- Certified low in trace metals
- Can be stored at temperatures between -80C & +122C

SuperClear™ 15ml and 50 ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
CT1110	50ml SuperClear Centrifuge Tube, Loose, Non Sterile	20,000	2 x 50
CT1120	50ml SuperClear Centrifuge Tube, Loose, Sterile	20,000	2 x 50
CT1140	50ml SuperClear Centrifuge Tube, Racked, Sterile	20,000	4 x 25
CT3076	15ml SuperClear Centrifuge Tube, Loose, Non Sterile	17,000	2 x 50
CT3078	15ml SuperClear Centrifuge Tube, Loose, Sterile	17,000	2 x 50
CT3083	15ml SuperClear Centrifuge Tube, Racked, Sterile	17,000	2 x 50

APEX® 'Essential' 15ml and 50ml Centrifuge Tubes

APEX® 'Essential' 15ml and 50ml Centrifuge tubes are designed for all your routine centrifugation and storage needs. If you are looking for a dependable, high quality tube at a sensible price then our APEX® 'Essential' range is the perfect solution.

Equipped with a host of features for ease of use and peace of mind, these tubes are great performers.



The 50ml tube is available in a free-standing (skirted) format, which allows it to stand upright without the need for a rack. It is ideal for transporting samples since it is lab certified to the IATA 95kPa standard.

- Compatible with all popular centrifuges and storage racks
- Large white, solvent-resistant labelling area on tube
- Black, easy to read graduations that will not run or rub off
- Flat cap for easy top labelling
- Solvent-resistant, high clarity resin
- Sterile according to a validated and approved ISO method
- Freezable to -80C



'Essential' 15ml and 50 ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
CT1155	15ml 'Essential' Centrifuge Tube, Loose, Sterile	12,500	2 x 50
CT1150	50ml 'Essential' Centrifuge Tube, Loose, Sterile	12,500	2 x 50
CT1170	50ml 'Essential' Centrifuge Tube, Skirted, Loose, Sterile	10,000	2 x 50

AHN myTube® 15ml and 50ml Centrifuge Tubes

The AHN myTube® range of 15ml and 50ml centrifuge tubes are ideal for sample storage and high-speed centrifugation purposes in the laboratory.

The diamond-finish production moulds provide a high-clarity, flawless internal surface that is super smooth for clean release of dispensed samples.

The leak-proof flat screw caps with large ridges provide optimal grip and enable convenient one-handed operation.

AHN myTube® centrifuge tubes feature graduation marks that are printed in bold easy-to-read black ink which is highly resistant to physical and chemical corrosion. The tubes also come with a large white writing area for convenient sample labelling.

The centrifuge tubes are lot by lot tested and certified Human DNA, DNase, RNase, Pyrogen, Endotoxin and Metal free. Where product is marked sterile, sterilisation is by gamma irradiation.

AHN myTube® centrifuge tubes are supplied in 4 gripseal bags of 25 tubes.



- Manufactured from high quality, FDA approved virgin polypropylene and are designed for both sample storage and high-speed centrifugation purposes in any laboratory
- The tubes can withstand a centrifugation force of up to 17,000g making them suitable for a wide range of research applications
- Both the caps and the centrifuge tubes can be autoclaved at 121C for 15 minutes.
- They are suitable for use within a temperature range of -80 to 121C

AHN myTube® 15ml and 50ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
3-256-25-8	15ml Centrifuge Tube with Flat Cap, Conical Bottom, Graduated, Loose, Sterile	20,000	4 x 25
3-254-25-8	15ml Centrifuge Tube with Flat Cap, Conical Bottom, Graduated, Loose, Non-Sterile	20,000	4 x 25
3-272-25-8	50ml Centrifuge Tube with Flat Cap, Conical Bottom, Graduated, Loose, Sterile	20,000	4 x 25
3-270-25-8	50ml Centrifuge Tube with Flat Cap, Conical Bottom, Graduated, Loose, Non-Sterile	20,000	4 x 25
3-281-25-8	50ml Centrifuge Tube with Flat Cap, Skirted Bottom, Graduated, Loose, Sterile	7,000	4 x 25
3-280-25-8	50ml Centrifuge Tube with Flat Cap, Skirted Bottom, Graduated, Loose, Non-Sterile	7,000	4 x 25



ProtectR® 15ml and 50ml CO₂ Resistant Centrifuge Tubes

ProtectR® Tube is the only container closure system engineered to be CO₂ resistant and prevent costly damage to molecular and cellular solutions when shipping or storing samples on dry ice.



Prevent Acidification of Your Samples

Made of durable, high quality materials and fitted with an air-tight cap, ProtectR Tubes form a protective barrier, impermeable to CO₂, keeping the sample pH stable and preventing acidification.

IATA 95kPa Certified for Air Shipment

ProtectR tubes are IATA 95kPa certified for packaging and air transport of biological samples and meet the UN1845 requirements for shipment on dry ice.

The 95kPa certification requires containers to withstand, without leakage, an internal pressure producing a pressure differential of not less than 95kPa between the temperatures of -40C to +55C.

Since air transportation is typically the most rigorous transport condition, containers that meet IATA regulations are also suitable for other transport methods.



Specifications

- Volume: Both 15ml and 50ml Tubes available
- Temperature Range: -80C to 110C
- Centrifuge: to 12,500g
- Sterility: Both Sterile and Non-Sterile formats available
- Autoclave: 122C at 15PSI
- Regulatory: CE IVD marked and CFR 21 USFDA Compliant
- Lot Certification: ATP, RNase, DNase, DNA, Endotoxin, Pyrogen free. Also low in trace metals
- Transportation: IATA 95kPa certified
- IntegraPack: 10 packs of 10 tubes (supplied in 2 sleeves of 5 packs)
- Patented, extra large smudge-resistance writing panel
- Easy-to-read graduations & reverse scale

ProtectR® 15ml and 50 ml Centrifuge Tubes

Catalogue Number	Description	Centrifuge Rating/RCF (g)	Pack Size
CT5015	15ml ProtectR Centrifuge Tube, Non Sterile	12,500	2 x 5 x 10
CT5015S	15ml ProtectR Centrifuge Tube, Sterile	12,500	2 x 5 x 10
CT5050	50ml ProtectR Centrifuge Tube, Non Sterile	12,500	2 x 5 x 10
CT5050S	50ml ProtectR Centrifuge Tube, Sterile	12,500	2 x 5 x 10

SampleTite™ Prime Containers

A Secure Solution for Sample Collection, Storage and Transportation

SampleTite™ Prime Specimen Containers have been designed for applications where strict adherence to regulatory requirements for the safe collection, storage and transportation of biological samples is essential.

The containers are manufactured from durable polypropylene and the various coloured caps are made from high density polyethylene (HDPE).

SampleTite™ Prime Specimen Containers are food contact approved and testing has been carried out for suitability with aggressive chemicals such as formaldehyde.

They are widely used in a range of applications including pathology, histology, water sampling and metals analysis.

- High clarity
- Easy opening and closure



Leak-proof, 95kPa Tested to IATA Standard for Compliant Sample Transport

A process validation has been carried out on these disposable plastic specimen containers to ensure the unique “double seal” closure technology remains leak-proof under a pressure differential of no less than 95 kPa (0.95bar, 14 psi) at both -40C and +55C, making them suitable as a primary container for air transport of UN3373 biological samples. Flexible Packaging Systems.

SampleTite™ Prime Containers		
Catalogue Number	Description	Pack Size
STC0120SJ	SampleTite Prime Specimen Container 120ml Clear Non-Sterile	500
STC0120CO	SampleTite Prime Specimen Cap 120ml Orange Non-Sterile	500
STC0120CP	SampleTite Prime Specimen Cap 120ml Purple Non-Sterile	500
STC0120CR	SampleTite Prime Specimen Cap 120ml Red Non-Sterile	500
STC0120CW	SampleTite Prime Specimen Cap 120ml White Non-Sterile	500
STC0120CY	SampleTite Prime Specimen Cap 120ml Yellow Non-Sterile	500



Cryogenic Vials

Designed for safe, ultra-low temperature storage, Alpha has three ranges of CE marked cryogenic storage vials.



All products in this range are certified free from RNase, DNase, pyrogens and DNA. Alpha Laboratories' cryogenic vials come in either free-standing or round-bottom base designs.

■ **Strong vial and cap** – a special grade of polypropylene, chosen for its consistent strength, is used to make all our vials. As a result, both vial and cap can withstand the harsh -196C temperature of vapour phase liquid nitrogen.
Please note that they are not designed for use in the liquid phase.

■ **Secure seal** – the cap and tube are made from the same material so with temperature change, they shrink and expand in unison. Tested leakproof to 95kPa.

■ **Fast opening/closing** – 1/4 turns is all that is required to close the cap securely. This is important when large quantities of vials are being used because it saves time and means there is less chance of the cap not being closed securely.

■ **Simple one-handed operation** – all free-standing vials, when used with a workstation, enable you to unscrew vials with one hand.

■ **Sterile** – all vials are gamma irradiated to ensure absolute sterility.

sterile

■ **Certified free from RNase, DNase, Pyrogens, human DNA and metals**



■ **Clear graduations** – at 100µl intervals to facilitate reading of your sample volume.

■ **Large white marking area** – for sample labelling and identification.

■ **Free-standing and locking base** – stand the vials on the bench or use them one-handed in a workstation.

■ **Supplied in tamper-evident, resealable bag** – clean and sterile.

■ **Cap insert** – available in 11 different colours. Perfect for colour coding.



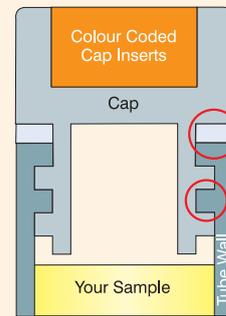
Not compatible with LW3439.

Coloured Cap Inserts

Catalogue Number	Description	Pack Size
LW3339B	Cryogenic Vial Cap Insert, Blue	500
LW3339G	Cryogenic Vial Cap Insert, Green	500
LW3339V	Cryogenic Vial Cap Insert, Violet	500
LW3339R	Cryogenic Vial Cap Insert, Red	500
LW3339W	Cryogenic Vial Cap Insert, White	500
LW3339Y	Cryogenic Vial Cap Insert, Yellow	500
LW3339O	Cryogenic Vial Cap Insert, Orange	500
LW3339P	Cryogenic Vial Cap Insert, Pink	500
LW3339GR	Cryogenic Vial Cap Insert, Grey	500
LW3339AS	Cryogenic Vial Cap Insert, Assorted	500

'The Classic' Range

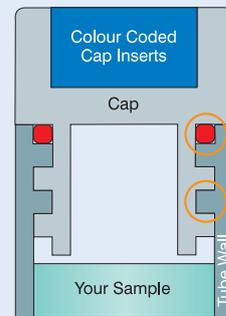
– designed for basic security



Silicone sealing washer compressed on three sides
Internal thread on tube holds the cap tightly in place

'Feel the Seal' Range

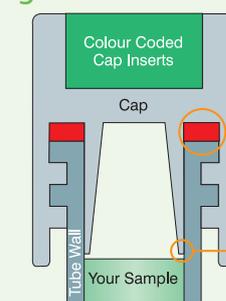
– ideal for storage of large batches



Silicone O-ring secures tightly against inner tube wall
Internal thread on tube holds the cap tightly in place

'Ultimate Security' Range

– dual washer and flange for the highest level of sample security



Silicone sealing washer compressed on all four of its sides
Internal flange secures the seal and reduces the risk of contaminating the cap

'High Capacity' Range

– ideal for larger samples

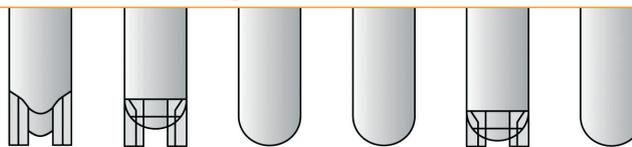


Internally Threaded – with Silicone Washer

Designed to improve safety compared with standard screw cap microcentrifuge tubes. 'The Classic' uses a square section washer that compresses tightly between the cap and top of the tube wall.



Free-standing or Round Bottom Bases



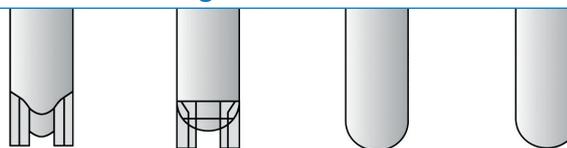
Catalogue Number	LW3332	LW3334	LW3335	LW3336	LW3337	LW3338
Working Volume (ml)	1.0	2.0	2.0	3.6	3.6	5.0
Size (mm)	12.5 x 41	12.5 x 49	12.5 x 48	12.5 x 70	12.5 x 72	12.5 x 90
Free-Standing	●	●			●	
Round Bottom			●	●		●
Pack Size	100	100	100	100	100	100

Internally Threaded – with Silicone O-Ring

It's true, you really can feel when the cap is securely closed. Ideal when storing important samples in large batches.



Free-standing or Round Bottom Bases



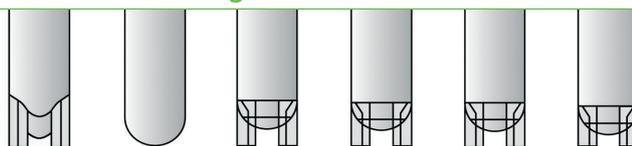
Catalogue Number	LW3532	LW3534	LW3535	LW3538
Working Volume (ml)	1.2	2.0	2.0	5.0
Size (mm)	12.5 x 41	12.5 x 49	12.5 x 48	12.5 x 90
Free-Standing	●	●		
Round Bottom			●	●
Pack Size	100	100	100	100

Externally Threaded – with Flange/Washer Combination

This unique combination of square section sealing washer and internal cap flange provides the highest level of security for your most precious samples.



Free-standing or Round Bottom Bases



Catalogue Number	LW3432	LW3435	LW3434	LW3436	LW3437	LW3438
Working Volume (ml)	1.0	1.8	1.8	3.0	3.8	4.5
Size (mm)	12.5 x 42	12.5 x 47	12.5 x 49	12.5 x 71	12.5 x 77	12.5 x 91
Free-Standing	●		●	●	●	●
Round Bottom		●				
Pack Size	100	100	100	100	100	100

Externally Threaded – High Capacity

Our jumbo, free-standing, externally threaded cryovials have a working volume of 9.5ml. They are gamma irradiated and certified free from RNase, DNase, Pyrogens and Human DNA. Featuring volume graduations and a large labelling area, these tubes offer a high level of security for your valuable samples.



Free-standing Base



Catalogue Number	LW3439
Working Volume (ml)	9.5
Size (mm)	17 x 84
Free-Standing	●
Pack Size	2 x 50

Round Bottom Tubes

For reliable performance and dependable quality choose Alpha Laboratories non-sterile, rimless test tubes.

- Available in a variety of sizes and volumes from 2ml to 12ml
- High chemical compatibility
- Centrifuge up to 3000g

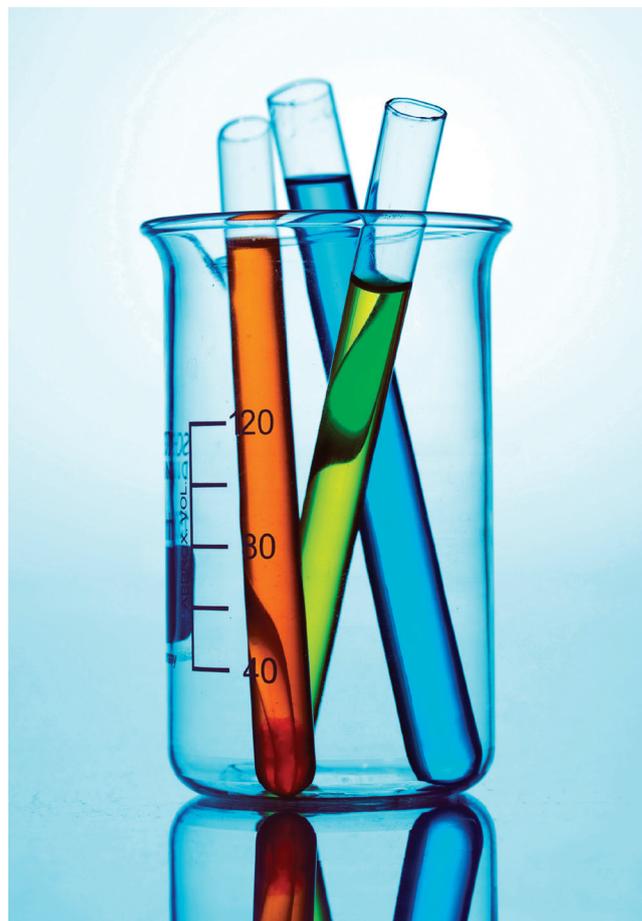
Clear Polystyrene Tubes

Manufactured from high-clarity polystyrene for applications requiring high visibility of contents.

Suitable for use in cell culture work and can be used with many aqueous solutions, mild bases and weak acids. They should not be used with volatile chemicals. Polystyrene test tubes are suitable for use within a temperature range of -10C to 70C.

Polypropylene Tubes

Manufactured from tough, opaque polypropylene for demanding applications that require a more robust tube with greater chemical resistance, higher centrifugation tolerance and higher temperature stability. They are suitable for use within a temperature range of -10C to 121C and can be autoclaved.



Polystyrene Tubes

Catalogue Number	Description	Pack Size
TU11042PS	Test Tube Round Bottom PS 11x42mm 2ml	1500
TU12055PS	Test Tube Round Bottom PS 12x55mm 4ml	1000
TU12075PS	Test Tube Round Bottom PS 12x75mm 4.5ml	1000
TU13075PS	Test Tube Round Bottom PS 13x75mm 5ml	1000
TU13100PS	Test Tube Round Bottom PS 13x100mm 8ml	400
TU16100PS	Test Tube Round Bottom PS 16x100mm 12ml	1000

Polypropylene Tubes

Catalogue Number	Description	Pack Size
TU12055PP	Test Tube Round Bottom PP 12x55mm 4ml	1000
TU12075PP	Test Tube Round Bottom PP 12x75mm 4.5ml	1000
TU13075PP	Test Tube Round Bottom PP 13x75mm 5ml	1000
TU13100PP	Test Tube Round Bottom PP 13x100mm 8ml	500
TU16100PP	Test Tube Round Bottom PP 16x100mm 12ml	6x200

Vacu-Re-Caps

Stretchable closure used to re-seal blood or other types of tubes.



Vacu-Re-Caps		
Catalogue Number	Description	Pack Size
AP0025	12mm Vacu-Re-Caps, Natural	1000
AP0121B	12mm Vacu-Re-Caps, Blue	1000
AP0121G	12mm Vacu-Re-Caps, Green	1000
AP0121Y	12mm Vacu-Re-Caps, Yellow	1000
AP0121P	12mm Vacu-Re-Caps, Purple	1000
AP0121R	12mm Vacu-Re-Caps, Red	1000
AP0021	15.2mm Vacu-Re-Caps, Natural	1000
AP0125R	15.2mm Vacu-Re-Caps, Red	1000
AP0125G	15.2mm Vacu-Re-Caps, Green	1000
AP0125P	15.2mm Vacu-Re-Caps, Purple	1000

Tube Volume Adaptors



Polypropylene tube insert to convert the volume of a 12mm diameter tube to 1.5ml or 3.0ml.

- Ideal for paediatric samples

Tube Volume Adaptors		
Catalogue Number	Description	Pack Size
AP0024	1.5ml Plastic Insert for 12mm tube	4000
AP0022	3.0ml Plastic Insert for 15.2mm tube	1500

Polyethylene Plug Caps

Plug caps offer a leak resistant seal for test tubes and other tubes. They are made from polyethylene and have a ribbed surface with high grip for easier handling. They have 2 sealing ribs for a firm seal with the tube (except CP3212 which is a flanged plug cap). These plug caps are supplied natural in colour and are non-sterile.

- Manufactured from polyethylene
- Ribbed surface to improve grip
- Double sealing ribs prevent leaking
- Suitable for sealing tubes of diameter 12mm to 16mm



Polyethylene Plug Caps		
Catalogue Number	Description	Pack Size
TU1200	Cap for 12mm Diameter Tube	1000
TU1300	Cap for 13mm Diameter Tube	2500
TU1600	Cap for 16mm Diameter Tube	1000
CP3212	Flanged Plug Cap for 12mm Diameter tube, Green	1000

Containers for Sample Collection, Transport, Storage and Processing

EveryDay Containers

95kPa tested 20ml and 60ml sample containers for the safe and efficient collection, storage and transport of a wide range of samples. The range includes a variety of HDPE colour caps and clear polypropylene jars available to order separately.

- Easy sample identification with a range of colourful caps
- 95kPa leak-proof tested, making them suitable for road transport
- Made from durable materials with high chemical resistance
- Easy-Grip cap design for easier closing and opening of containers
- Suitable for everyday use in any laboratory

95kPa



EveryDay Containers

Catalogue Number	Description	Pack Size
SC5520SJ	Specimen Container Jar 20ml Clear	500
SC5520CO	Specimen Container Cap 20ml Orange	500
SC5520CP	Specimen Container Cap 20ml Purple	500
SC5520CY	Specimen Container Cap 20ml Yellow	500
SC5520CR	Specimen Container Cap 20ml Red	500
SC5520CW	Specimen Container Cap 20ml White	500
SC5560SJ	Specimen Container Jar 60ml Clear	500
SC5560CO	Specimen Container Cap 60ml Orange	500
SC5560CP	Specimen Container Cap 60ml Purple	500
SC5560CY	Specimen Container Cap 60ml Yellow	500
SC5560CR	Specimen Container Cap 60ml Red	500
SC5560CW	Specimen Container Cap 60ml White	500



Aseptic 60ml Container PS/PE

- Manufactured from virgin non-cytotoxic polystyrene
- CE marked in accordance with the European directive 98/79/EC
- For *in vitro* use only
- Unique leak-tight cap ensures exceptional leak-proof seal



CE
IVD

60ml Container PS/PE		
Catalogue Number	Description	Pack Size
IR1382	60ml Container PS/PE No Label Plastic Cap	300
IR1381	60ml Container PS/PE Printed Label Plastic Cap	300
IR1380	60ml Container Plain Label Plastic Cap	300

Aseptic Container PS/Metal Cap

- Ideal for sample containment
- CE marked in accordance with the European Directive 98/79/EC
- For *in vitro* use only
- Aseptically manufactured under cleanroom conditions (class 7 ISO 14644) to exclude microbiological contamination
- Manufactured from virgin polystyrene
- All materials are non-cytotoxic



CE
IVD

Aseptic Container PS/Metal Cap

Catalogue Number	Description	Pack Size
IR1400	150ml Container No Label, Metal Flow Seal Cap	120
IR1405	150ml Container Plain Label, Metal Flow Seal Cap	120
IR1410	250ml Container No Label, Metal Flow Seal Cap	50
IR1415	250ml Container Plain Label, Metal Flow Seal Cap	50
IR1420	250ml Container Printed Label, Metal Flow Seal Cap	50

30ml Universal Containers

Universal containers are aseptically manufactured from clear virgin polypropylene or polystyrene. All have a conical base and are self-standing. For stool collection there are options with a sampling scoop/spoon attached to the cap, or for urine collection there is an option with Boric Acid. Made to the highest standards and demanding specifications for the most critical applications. Manufactured under clean room conditions. All materials are non-cytotoxic.

Universal Containers - Polypropylene Tube

Catalogue Number	Description	95kPa	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
CW3840	30ml Universal	Yes	PP/PP	Printed	Aseptic	400	No
CW3850	30ml Universal with Boric Acid	Yes	PP/PP	Printed	Aseptic	400	No
IR1385	30ml Universal	Yes	PP/PP	No	Aseptic	400	50

Universal Containers - Polystyrene Tube

Catalogue Number	Description	95kPa	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Pack
CW3880	30ml Universal	No	PS/PP	No	Aseptic	400	No
CW3890	30ml Universal	No	PS/PP	Plain	Aseptic	400	No
IR1390	30ml Universal	Yes	PS/PP	Printed	Aseptic	400	50
CW3820	30ml Universal with Boric Acid	Yes	PS/PP	Printed	Aseptic	400	No
CW3810	30ml Universal with Spoon	No	PS/PP	Printed	Aseptic	400	No
RC2145	30ml Universal with Spoon	No	PS/PP	No	Aseptic	400	No



CW3840



CW3850



IR1385



IR1390



CW3820



Transport Tubes

Manufactured from virgin polypropylene, these tubes are free-standing with an internal conical base and in-mould graduations in 5ml increments. The screw cap is supplied with the tube and is manufactured from polyethylene.

They are 95kPa tested for the storage and transport of urine, sputum and most liquids of particulate samples.

The tubes are lot by lot certified free of DNA, DNase, RNase and Endotoxins.

They are autoclavable at 121C and can be used for freezing samples.



Transport Tubes		
Catalogue Number	Description	Pack Size
TT1500	Transport Tube 50ml, Yellow Screw Cap, Non-Sterile, Graduated	100 x 5
TT1500S	Transport Tube 50ml, Green Screw Cap, Sterile, Graduated	25 x 20

Bijou Containers

Bijou containers offer a wide variety of uses across research, pharmaceutical and clinical laboratories.

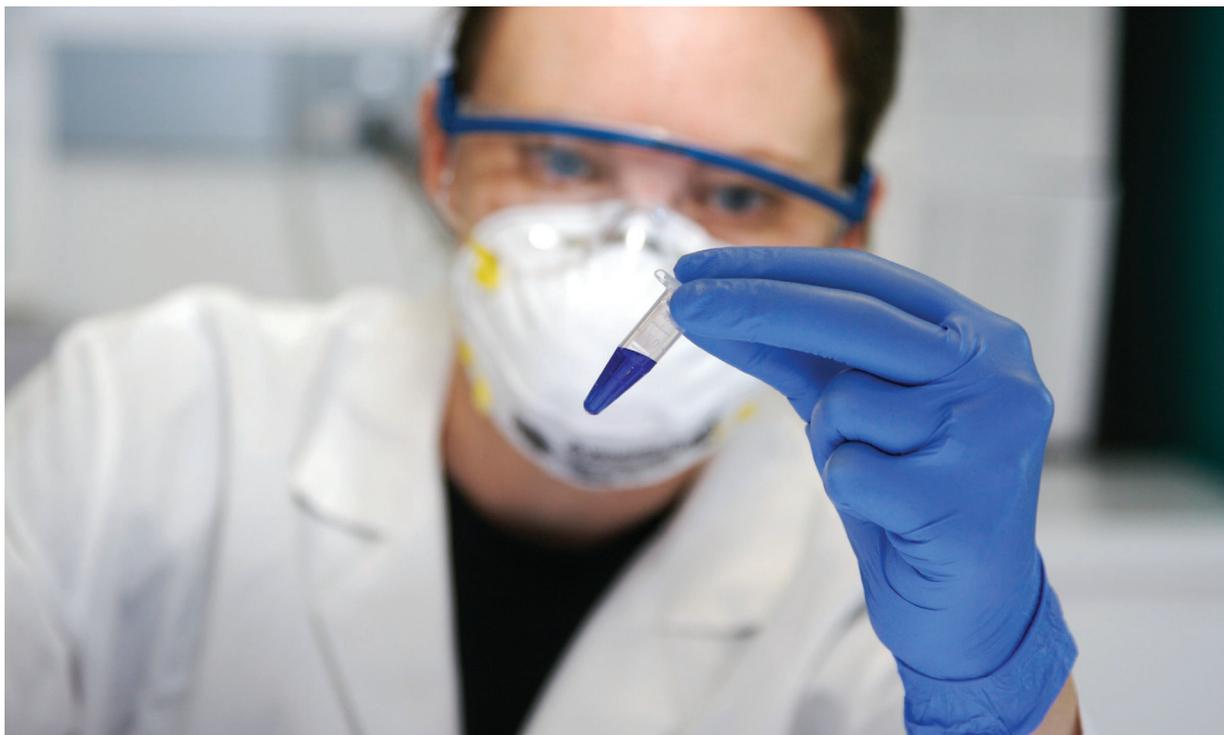
For preservation of urine samples a bijou containing Boric Acid is available.

- Ideal for small volume samples
- Manufactured under clean room conditions
- Manufactured from virgin non-cytotoxic polystyrene
- CE marked in accordance with the European directive 98/79/EC
- For *in vitro* use only
- Leak-proof tested in accordance with BS EN 14254 Annex D



Bijou Containers						
Catalogue Number	Description	Material * (Tube/Cap)	Label	Sterility	Pack Size	Inner Packs
RC2122	7ml Bijou Screw Cap Container	PS/PE	Plain	Aseptic	700	No
RC2124	7ml Bijou Screw Cap Container w/ Boric Acid	PS/PE	Plain	Aseptic	700	No
RC2120	7ml Bijou Screw Cap Container	PS/PP	No	Aseptic	700	No

*PS = Polystyrene, PP = Polypropylene, PE = Polyethylene



Micro Slide Boxes

Microslide boxes are designed for use with standard 76cm x 26cm microscope slides. They are manufactured from high impact polystyrene which is virtually unbreakable. A lid is supplied with each box for the safe storage of your glass or plastic slides. The lid is completely removable for easy access.

Each of the slots are well spaced for easy handling of the slides. Each slot is clearly numbered and can be cross-referenced against a corresponding index card.



Micro Slide Boxes

Catalogue number	Description	Pack Size
0027600	Micro slide boxes 25 places	4
0027800	Micro slide boxes 100 places	1

Culture Tools

Great value, colour-coded culture tools in smooth plastic. Free of lubricants so no risk of contamination.

Supplied sterile.



Culture Tools

Catalogue number	Description	Pack Size
CS0010	Cell Spreader L-Shape Blue 1/PeelWrap, Sterile (EO)	500
CS0050	Cell Spreader L-Shape White 5/PeelWrap, Sterile (IR)	80x5
IN2010	Innoculation Loop 1µl Polystyrene, 20/Ziplock Bag, Flexible, Light Green, Sterile (IR)	50x20
IN2020	Innoculation Loop 1µl Polystyrene, 20/Ziplock Bag, Rigid, Dark Green, Sterile (IR)	50x20
IN2030	Innoculation Loop 10µl Polystyrene, 20/Ziplock Bag, Flexible, Light Blue, Sterile (IR)	50x20
IN2040	Innoculation Loop 10µl Polystyrene, 20/Ziplock Bag, Rigid, Dark Blue, Sterile (IR)	50x20
IN2050	Innoculation Needle Plastic Hard, 20/Ziplock Bag, Violet, Sterile (EO)	50x20

Consumables for Sample Processing

Petri Dishes

Petri Dishes are routinely used by microbiologists to culture micro-organisms on solid media. All types are aseptically manufactured under clean room conditions (class 7 ISO14644) to exclude microbiological contamination.

Petri Dishes are available in three different sizes with single, triple or non-vented formats :-

- Triple vented - aids gaseous exchange and are ideally suited for short term work.
- Single vented - limits gaseous exchange, minimises evaporation and dehydration making them well suited for long term work.
- Non-vented - most suitable for anaerobic and long term work.

Other sizes available - please see our website.

90mm Petri Dishes

These 90mm petri dishes are manufactured from virgin polystyrene in mirror finished moulds to ensure the highest optical clarity. They are produced and tested in accordance with the BS611 part 2 standard which includes stringent dimensional controls.

- Ideal for use in automatic plate pourers

30mm Petri Dish

Ideal for use when savings in media or incubator space are required.

100mm Square Petri Dish

A non-compartmentalised dish which is ideal for antibiotic sensitivity testing when a large surface area and very flat base are required.



90mm Petri Dishes

Catalogue Number	Description	Aseptically produced	Terminally sterilised	Pack Size
IR1370	90mm Non-Vented Petri Dish	Yes	No	500
RC2270	90mm Single Vent Petri Dish	Yes	No	20 x 25
RC2260	90mm Triple Vent Petri Dish	Yes	No	20 x 25

30mm Petri Dish

Catalogue Number	Description	Aseptically produced	Terminally sterilised	Pack Size
IR1375	30mm Triple Vent Petri Dish	Yes	No	800

100mm Square Petri Dish

Catalogue Number	Description	Aseptically produced	Terminally sterilised	Pack Size
IR1365	100mm Square Single Vent Petri Dish	Yes	No	120

Spatulas

These polystyrene spatulas with a flattened paddle at one end, are great for measuring out and mixing small amounts of reagent and chemicals. Highly resistant and virtually unbreakable, they have a million and one uses throughout the lab!

Spatulas		
Catalogue Number	Description	Pack Size
US0120	Spatula 120 x 3mm	500



Antistatic Weighing Dishes

The Alpha polystyrene weighing dishes will resist diluted acids, aqueous solutions, alcohols and bases. They are ideal for many applications such as weighing, dispensing or storing. They are safe, contaminant-free, biologically inert, economical containers for weighing liquid or powdered samples in the laboratory. Flat bottoms ensure perfect stability on counters. They have a smooth surface providing accurate pour-outs with minimal sample loss and facilitating weighing of static-prone samples.

The Alpha dishes can also be used as quick freeze trays for sample material, discard trays for broken ampoules, or mixing trays for small batches. They will also withstand temperatures up to 80C.

Antistatic Square Weighing Dishes

Catalogue Number	Volume (ml)	Description (mm)	Pack Size
DA2501	10	41 x 41 x 8 H	500
DA2502	100	89 x 89 x 25 H	500
DA2503	330	140 x 140 x 25 H	500

Antistatic Hexagonal Weighing Dishes

Catalogue Number	Volume (ml)	Top I.D. (mm)	Bottom I.D. (mm)	Pack Size
DA2521	20	38	25	500
DA2522	50	64	51	500
DA2523	200	102	76	500

Antistatic Pour Boats

Catalogue Number	Volume (ml)	Description (mm)	Pack Size
DA2511	20	80 x 41 x 8 H	250
DA2512	140	133 x 76 x 25 H	250
DA2513	270	197 x 121 x 25 H	250



Sample Cups



Made from optically clear, virgin polystyrene, Alpha's Sample Cups are suitable for use on chemistry and coagulation analysers.

- Comprehensive range to fit most analysers
- Caps available for re-sealing QT1500A, QT1502A, QT2110A & QT2120A

Sample Cups

Catalogue Number	Description	Volume	Ø mm	Height mm	Pack Size
QT1500A	Technicon Sample Cup	1.5ml	13.8	22.6	1000
QT1502A	Technicon Sample Cup	2.0ml	13.7	24.9	1000
QT1520A	Technicon Sample Cup	4.0ml	17.26	37.9	1000
QT2110A	Centrifichem Sample Cup	0.25ml	13.7	16.4	1000
QT2120A	Gemsaec Sample Cup	0.50ml	13.55	24.5	1000
QT2600A	Hitachi Sample Cup	2.0ml	16.75	38	1000
QT1550A*	Push Cap	-	-	-	1000

* Caps compatible with QT1500A, QT1502A, QT2110A & QT2120A only

Counting Vials



Manufactured from clear polystyrene, these multi-purpose vials are suitable for blood counting or general dilutions. Clear vial with polyethylene cap.

- Caps included
- Clear polystyrene

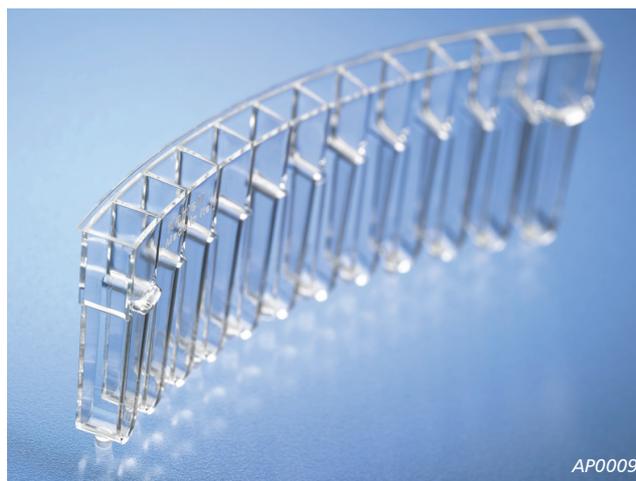
Counting Vials

Catalogue Number	Description	Volume	Size H x Ø	Pack Size
CV4010	Coulter Counting Vial with cap, square based	25ml	60 x 32mm	2 x 250
CV4020	Counting Vial with cap	15ml	45 x 22mm	500

Cobas Mira Consumables

Micro test tubes with tethered cap for use in Cobas Mira and Fara systems. Manufactured from polypropylene and available in a choice of colours.

Also available, Cobas Mira reaction cuvettes, supplied individually wrapped.



Cobas Mira Consumables

Catalogue Number	Description	Pack Size
AP0001	Cobas Sample Cups, White	1000
AP0004	Cobas Sample Cups, Pink	1000
AP0009	Cobas Cuvette Segments	450

Cuvettes

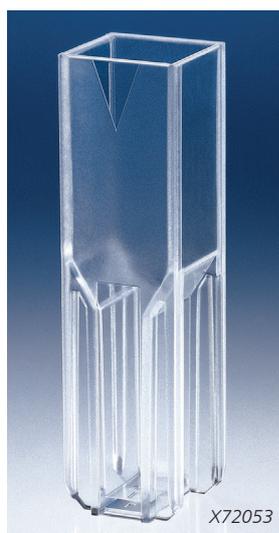
Disposable cuvettes for use in most standard spectrophotometers. Available in macro or semi-micro sizes for measuring UV.

■ Path length – 1 cm

Disposable Cuvettes

Catalogue Number	Description	Pack Size
X72053	Semi-Micro Cuvette, UV, PMMA*, 1.5ml	1 x 100
X72054	Macro Cuvette, UV, PMMA*, 4.0ml	1 x 100

*PMMA = Polymethyl methacrylate



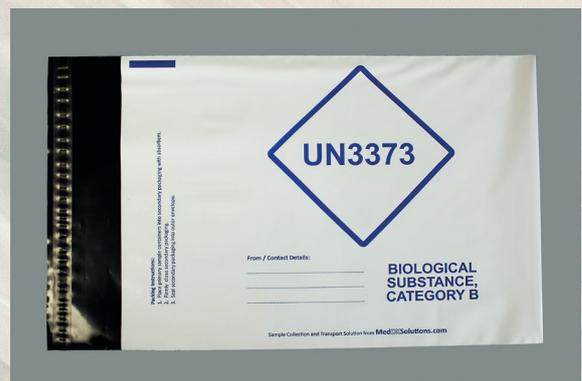
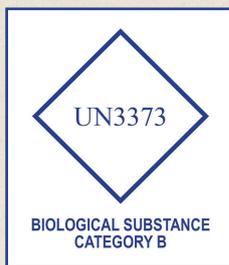
SpeciSafe®

Safe, Convenient and Economical Sample Transport Solution

When used with 95kPa tested tubes, SpeciSafe packs are compliant with UN3373 regulations.

A wide range of designs to fit commonly used specimen tubes including blood and urine tubes.

See pages 102-105 for more information.



Sample Collection & UN3373 Packaging

Biological specimens fall under the Dangerous Goods Regulations since they may contain pathogens. Their transport is strictly controlled and it is a legal and mandatory requirement to comply with the regulations.

Samples such as blood, tissue, excreta, secreta etc. from humans or animals (which are not assigned to Category A, Infectious Substances), are considered to be Category B Biological Substances. These are assigned to UN3373 and must be packaged according to the Dangerous Goods IATA (air) or ADR (road) Packing Instruction 650 for transport.

Alpha Laboratories helps make compliance convenient, consistent and cost-effective with unique packaging solutions. If you are unsure about what you need for compliance please refer to our easy to follow guide on page 91.

Further support and resources can also be found at www.UN3373.co.uk

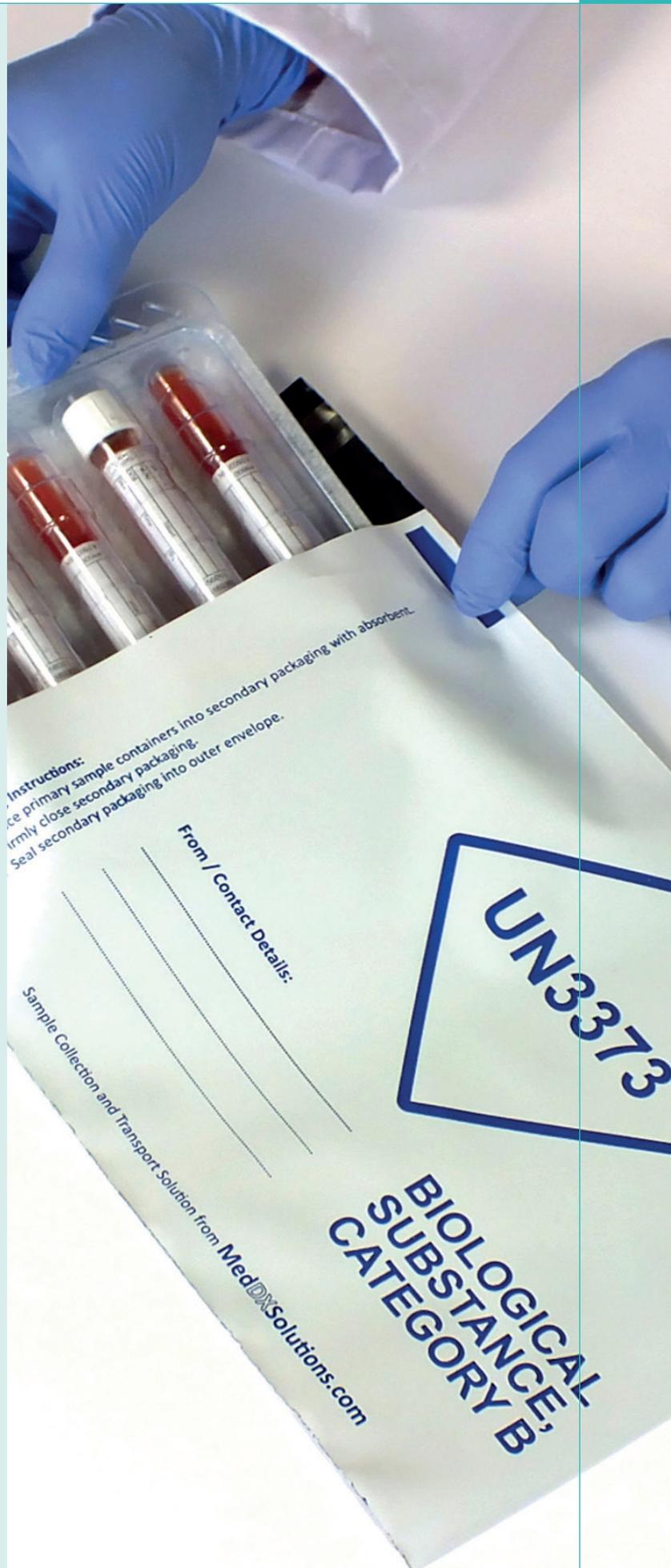
What's New?

- PeeCanter
- Complete Kits for Sample Transport
- Full range of UN3373 Compliant Packaging Materials

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Understanding the Regulations

Visit our dedicated website www.un3373.co.uk to access videos, brochures and guidelines.

Key Requirements of UN3373 Regulations

Here you will find a brief overview of the classification of infectious substances, and the key requirements for transporting UN3373 Biological Substance, Category B.

Transport of any material which is considered hazardous in any way, can only be conducted in a manner which is compliant with the Dangerous Goods Regulations. This includes any materials derived from human or animal sources which has the potential to contain pathogenic organisms.

There are 2 main classes of infectious material:

Category A

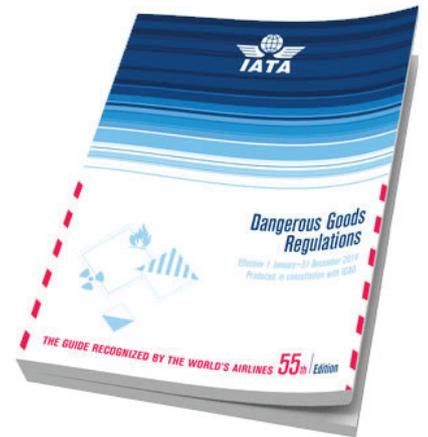
"An infectious sample which is transported, in a form that when exposure to it occurs, is capable of causing permanent disability, life-threatening or fatal disease in otherwise healthy humans or animals.

Infectious substances meeting these criteria which cause disease in humans or both in humans and animals must be assigned to UN2814. Infectious substances which cause disease only in animals must be assigned to UN2900."

Category A Infectious Substances are considered to be high consequence dangerous goods. Transport of these substances must only be carried out by fully trained and certified handlers. Please refer to the IATA or ICAO websites for further information.

Category B

An infectious substance which does not meet the criteria for inclusion in category A. Infectious substances in Category B must be assigned to UN3373 – Biological Substance, Category B.



P650 Packaging Instruction Key Requirements for Road Transport (ADR)

Infectious substances assigned to Category B (UN3373) can be transported by specialised couriers or the Royal Mail, provided they comply with packaging instruction P650 as specified within the dangerous goods manuals. Always check with your transport provider before shipping.

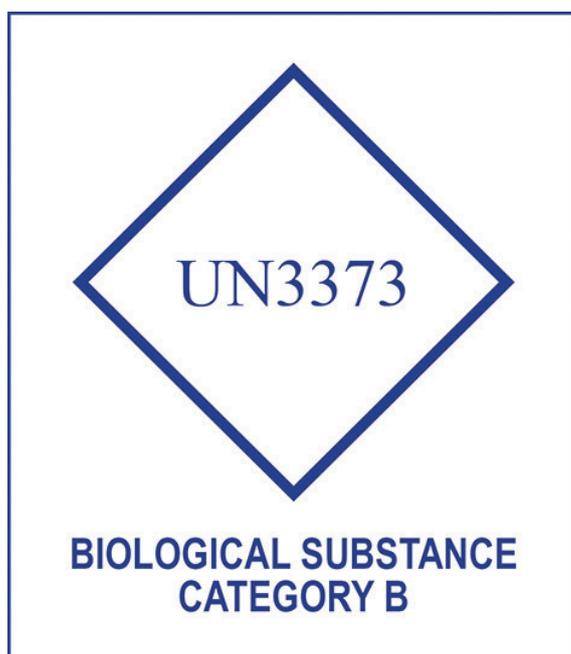
The packaging must be of good quality and strong enough to withstand the shocks and loadings normally encountered during transport. It must prevent any loss of contents that could occur due to vibration or changes in temperature, humidity or pressure. The P650 packaging instructions for liquid substances state:-

- a) The primary receptacle(s) shall be leak proof; (see point e)
- b) The secondary packaging shall be leak proof; (see point e)
- c) If multiple fragile primary receptacles are placed in a single secondary packaging, they shall be either individually wrapped or separated to prevent contact between them;
- d) Absorbent material shall be placed between the primary receptacle(s) and the secondary packaging. The absorbent material shall be in quantity sufficient to absorb the entire contents of the primary receptacle(s) so that any release of the liquid substance will not compromise the integrity of the cushioning material or of the outer packaging;
- e) The primary receptacle or the secondary packaging shall be capable of withstanding, without leakage, an internal pressure of 95 kPa (0.95 bar).
- f) The outer packaging or the secondary packaging shall be rigid and the entire packaging solution will have passed the 1.2m drop test.
- g) Suitable cushioning material shall be added to prevent too much movement within the package.
- h) The packaging should be clearly marked with the UN3373 diamond adjacent to the words "BIOLOGICAL SUBSTANCE, CATEGORY B"

P650 Packaging Instruction Key Requirements for Air Transport (IATA)

The key differences compared to transport via road are **highlighted** for clarity

- a) The primary receptacle(s) shall be leak proof; (see point e)
- b) The secondary packaging shall be leak proof; (see point e)
- c) If multiple fragile primary receptacles are placed in a single secondary packaging, they shall be either individually wrapped or separated to prevent contact between them;
- d) Absorbent material shall be placed between the primary receptacles(s) and the secondary packaging. The absorbent material shall be in quantity sufficient to absorb the entire contents of the primary receptacle(s) so that any release of the liquid substance will not compromise the integrity of the cushioning material or of the outer packaging;
- e) The primary receptacle or the secondary packaging shall be capable of withstanding, without leakage, an internal pressure of 95 kPa (0.95 bar) **in the range of -40C and +55C**
- f) The outer packaging shall be **rigid** and the entire packaging solution will have passed the 1.2m drop test
- g) Suitable cushioning material shall be added to prevent too much movement within the package
- h) The packaging should be clearly marked with the UN3373 diamond adjacent to the words "BIOLOGICAL SUBSTANCE, CATEGORY B"
- i) The outer packaging must have one surface of minimum dimensions 10 x 10cm**
- j) Maximum volume per primary is 1L**
- k) Maximum volume per outer is 4L**
- l) The outer packaging must contain an itemised list of contents**



Official UN3373 Regulation Resources

Alpha Laboratories advises all users to consult the official bodies responsible for safe transport of hazardous material. Visit our dedicated website www.un3373.co.uk to access these links on line.

IATA

The absolute rules for shipping Dangerous Goods by Air.
www.iata.org/whatwedo/cargo/dgr/Documents/infectious-substance-classification-DGR56-en.pdf
www.iata.org/whatwedo/cargo/dgr/Documents/packing-instruction-650-DGR56-en.pdf



International Civil Aviation Organisation (ICAO)

Technical Instructions for the Safe Transport of Dangerous Goods by Air
www.icao.int/publications/Documents/guidance_doc_infectious_substances.pdf



Department for Transport, HSE, Maritime and Coastguard Agency and Civil Aviation Authority

Transport of infectious substances UN2814, UN2900 and UN3373
https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/527069/dangerous-goods-guidance-note-17.pdf



Department
for Transport

World Health Organisation

Transport of Infectious Substances
www.who.int/ihr/publications/who_hse_ihr_20100801_en.pdf?ua=1



You can also refer to your courier's website for advice.