

# Syringes | Syringes and needles for LEAP autosamplers

The choice for GC and LC applications with LEAP - CTC PAL

Part number	Part description and detail	Needle gauge	Needle OD (mm)	Needle length (mm)	Needle tip	Barrel OD (mm)	PTFE plunger tip	Replacement needle	Replacement plunger
<b>GC applications</b>									
<b>CombiPAL, Combi-xt and GC PAL syringes</b>									
<b>Fixed needle</b>									
001700	5µL Fixed Needle, 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler, TriPlus	26	0.47	50	Cone	6.5	-	-	-
001981	5µL Fixed Needle, 0.63mm Needle OD (23 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler, TriPlus	23	0.63	50	Cone	6.5	-	-	-
002977	10µL Gas Tight, Fixed Needle, 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler	26	0.47	50	Cone	6.5	P	-	031803
002976	10µL Fixed Needle CTC/Thermo Syringe with Gas Tight Plunger & 5cm 0.47mm OD (26 gauge), Cone Tipped Needle PK6	26	0.47	50	Cone	6.5	P	-	031803
002700	10µL Fixed Needle, 50mm Needle Length, 0.47mm Needle OD (26 gauge), Cone Tipped, for CTC Autosampler	26	0.47	50	Cone	6.5	-	-	-
002981	10µL Fixed Needle, 0.63mm Needle OD (23 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler, Thermo, TriPlus, AS3000, AS2000, AS200, AS800, Varian 8400, 8410, CP-9010, CP-9050	23	0.63	50	Cone	6.5	-	-	-
002971	10µL Fixed Needle, for CTC Thermo Autosampler, TriPlus, AS3000, AS2000, AS200, AS800, 5cm 0.63mm OD (23 gauge), Cone Tipped Needle, PK6	23	0.63	50	Cone	6.5	-	-	-
002987	10µL Gas Tight, PTFE Tipped Plunger, Fixed Needle, 50mm Needle Length, 0.63mm Needle OD (23 gauge), Cone Tipped, for CTC Autosampler, Thermo, TriPlus, AS2000	23	0.63	50	Cone	6.5	P	-	031803
002972	10µL Fixed Needle, for CTC Thermo Autosampler, TriPlus, AS2000, Gas Tight, PTFE Tipped Plunger, 5cm 0.63mm OD (23 gauge), Cone Tipped Needle PK6	23	0.63	50	Cone	6.5	P	-	031803
002983	10µL Gas Tight, PTFE Tipped Plunger, Fixed Needle, 50mm Needle Length, 0.72mm Needle OD (22 gauge), Side-hole dome tip, for CTC Autosampler	22	0.72	50	Side-hole	6.5	P	-	031803
003987	25µL Fixed Needle, for CTC/Thermo Autosampler, PTFE Tipped Plunger, Gas Tight, 5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	50	Cone	6.5	P	-	031817
003700	25µL Fixed Needle, for CTC Autosampler, PTFE Tipped Plunger, Gas Tight, 5cm 0.47mm OD (26 gauge) Cone Tipped Needle	26	0.47	50	Cone	6.5	P	-	-
005700	100µL Fixed Needle, for CTC Autosampler, PTFE Tipped Plunger, Gas Tight, 5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	50	Cone	6.5	P	-	0318261
005335	100µL Fixed Needle, for CTC/Thermo Autosampler, PTFE Tipped Plunger, Gas Tight, 5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	50	Cone	6.5	P	-	0318261
006700	250µL Fixed Needle, for CTC Autosampler, PTFE Tipped Plunger, Gas Tight, 5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	50	Cone	8	P	-	0318926
007700	500µL Fixed Needle, for CTC Autosampler, PTFE Tipped Plunger, Gas Tight, 5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	50	Cone	8	P	-	0318928

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Part number	Part description and detail	Needle gauge	Needle OD (mm)	Needle length (mm)	Needle tip	Barrel OD (mm)	PTFE plunger tip	Replacement needle	Replacement plunger
<b>Removable needle</b>									
000490	0.5µL Plunger-in-Needle (6.5mm OD barrel), Removable Needle, 0.47mm Needle OD (26 gauge), 50mm Needle Length, for CTC Autosampler, Thermo, TriPlus, AS3000	26	0.47	50	Cone	6.5		033770*	033770*
000492	0.5µL Plunger-in-Needle (6.5mm OD barrel), Removable Needle, 0.63mm Needle OD (23 gauge), 50mm Needle Length, for CTC Autosampler, Thermo, TriPlus, AS3000	23	0.63	50	Cone	6.5		033772*	033772*
000790	2µL Plunger-in-Needle (8mm OD barrel), Removable Needle, 50mm Needle Length, 0.63mm Needle OD (23 gauge), for CTC Autosampler, Thermo TriPlus, AS3000	23	0.63	50	Cone	0.47		034905*	034905*
001984	5µL Removable Needle, 50mm Needle Length, 0.63mm Needle OD (23 gauge), Cone Tipped, for CTC Autosampler	23	0.63	50	Cone	6.5		036011	-
002982	10µL Removable Needle, 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler, Thermo, TriPlus, AS3000, AS2000, Varian 8400, 8410, CP-9010, CP-9050	26	0.47	50	Cone	6.5		037101	-
002985	10µL Gas Tight, PTFE Tipped Plunger, Removable Needle, 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler	26	0.47	50	Cone	6.5	P	037101	0318121
002984	10µL Removable Needle, 0.63mm Needle OD (23 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler, Thermo, TriPlus, AS3000, AS2000, AS200, AS800	23	0.63	50	Cone	6.5		037787	-
003988	25µL Removable Needle, for CTC/Thermo Autosampler, PTFE Tipped Plunger, Gas Tight, 5cm 0.47mm OD (26 gauge), Side-hole Needle	26	0.47	50	Side-hole	6.5	P	038749	031816
005333	100µL Removable Needle, for CTC/Thermo Autosampler, PTFE Tipped Plunger, Gas Tight, 5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	50	Cone	6.5	P	038732	031826
<b>PAL3, RTC, RSI, LSI syringes</b>									
<b>Removable needle</b>									
000480	0.5µL NanoVolume CTC RTC & Thermo RSH Autosampler Syringe with 5.7cm 0.63mm OD (23 gauge) Cone Tipped Needle	23	0.63	57	Cone			033780	033780
000680	1.0µL NanoVolume CTC RTC & Thermo RSH Autosampler Syringe with 5.7cm 0.63mm OD (23 gauge) Cone Tipped Needle	23	0.63	57	Cone			034780	034780
001871	5µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with 5.7cm 0.47mm OD (26 gauge), Cone Tipped Needle	23	0.63	57	Cone			036871	-
001873	5µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with 8.5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	85	Cone			036873	-
001875	5µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with 5.7cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	57	Cone			036875	-
001877	5µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with 8.5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	85	Cone			036877	-
002871	10µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with 5.7cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	57	Cone			037871	-
002872	10µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with Gas Tight Plunger & 5.7cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	57	Cone		P	037871	032810
002873	10µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with 8.5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	85	Cone			037873	-
002874	10µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with Gas Tight Plunger & 8.5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	85	Cone		P	037873	032810

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002875	10µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with 5.7cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	57	Cone			037875	-
002876	10µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with Gas Tight Plunger & 5.7cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	57	Cone		P	037875	032810
002877	10µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with 8.5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	85	Cone			037877	-
002878	10µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with Gas Tight Plunger & 8.5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	85	Cone		P	037877	032810
<b>PAL3, RTC, RSI, LSI syringes</b>									
<b>Fixed needle</b>									
001861	5µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with 5.7cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	57	Cone			-	-
001863	5µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with 8.5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	85	Cone			-	-
001865	5µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with 5.7cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	57	Cone			-	-
001867	5µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with 8.5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	85	Cone			-	-
002861	10µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with 5.7cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	57	Cone			-	-
002862	10µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with Gas Tight Plunger & 5.7cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	57	Cone		P	-	032810
002863	10µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with 8.5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	85	Cone			-	-
002864	10µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with Gas Tight Plunger & 8.5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	85	Cone		P	-	032810
002865	10µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with 5.7cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	57	Cone			-	-
002866	10µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with Gas Tight Plunger & 5.7cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	57	Cone		P	-	032810
002867	10µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with 8.5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	85	Cone			-	-
002868	10µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with Gas Tight Plunger & 8.5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	85	Cone		P	-	032810
002869	10µL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with 8.5cm 0.47mm OD (26 gauge), Bevel Tipped Needle	26	0.47	85	Bevel			-	-
003862	25µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	57	Cone		P	-	032815
003864	25µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	85	Cone		P	-	032815
003866	25µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	57	Cone		P	-	032815

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003868	25µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	85	Cone		P	-	032815
004862	50µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	57	Cone		P	-	032821
004864	50µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	85	Cone		P	-	032821
004866	50µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	57	Cone		P	-	032821
004868	50µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	85	Cone		P	-	032821
005862	100µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	57	Cone		P	-	032825
005864	100µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	85	Cone		P	-	032825
005866	100µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	57	Cone		P	-	032825
005868	100µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	85	Cone		P	-	032825
005890	100µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.63mm OD (23 gauge), Side-hole Needle	23	0.63	57	Side-hole		P	-	032825
005891	100µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.63mm OD (23 gauge), Side-hole Needle	23	0.63	85	Side-hole		P	-	032825
006862	250µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	57	Cone		P	-	032831
006864	250µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	85	Cone		P	-	032831
006866	250µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	57	Cone		P	-	032831
006868	250µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	85	Cone		P	-	032831
006890	250µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.63mm OD (23 gauge), Side-hole Needle	23	0.63	57	Side-hole		P	-	032831
006891	250µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.63mm OD (23 gauge), Side-hole Needle	23	0.63	85	Side-hole		P	-	032831
007862	500µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	57	Cone		P	-	032835
007864	500µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.63mm OD (23 gauge), Cone Tipped Needle	23	0.63	85	Cone		P	-	032835

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007866	500µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	57	Cone		P	-	032835
007868	500µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.47mm OD (26 gauge), Cone Tipped Needle	26	0.47	85	Cone		P	-	032835
007890	500µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.63mm OD (23 gauge), Side-hole Needle	23	0.63	57	Side-hole		P	-	032835
007891	500µL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 8.5cm 0.63mm OD (23 gauge), Side-hole Needle	23	0.63	85	Side-hole		P	-	032835
<b>Antek syringes</b>									
<b>Fixed needle</b>									
0039871	25µL Fixed Needle Syringe with Gas Tight Plunger & 5cm 0.63mm OD (23 gauge) Cone Tipped Needle, old style Plunger for certain Antek instruments	23	0.63	50	Cone		P	-	-
<b>Thermo TriPlus syringes</b>									
<b>Fixed needle</b>									
001981	5µL Fixed Needle, 0.63mm Needle OD (23 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler, TriPlus	23	0.63	50	Cone			-	-
001982	5µL Fixed Needle, 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler, Thermo TriPlus	26	0.47	50	Cone			-	-
002967	10µL Fixed Needle, for CTC Thermo Autosampler, TriPlus, AS3000, AS2000, AS200, AS800, 5cm 0.50mm OD (25 gauge), Cone Tipped Needle	25	0.50	50	Cone			-	-
002971	10µL Fixed Needle, for CTC Thermo Autosampler, TriPlus, AS3000, AS2000, AS200, AS800, 5cm 0.63mm OD (23 gauge), Cone Tipped Needle, PK6	23	0.63	50	Cone			-	-
002972	10µL Fixed Needle, for CTC Thermo Autosampler, TriPlus, AS2000, Gas Tight, PTFE Tipped Plunger, 5cm 0.63mm OD (23 gauge), Cone Tipped Needle PK6	23	0.63	50	Cone		P	-	031803
002980	10µL Fixed Needle, 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler, Thermo, TriPlus, AS3000, AS2000, AS200, AS800	26	0.47	50	Cone			-	-
002981	10µL Fixed Needle, 0.63mm Needle OD (23 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler, Thermo, TriPlus, AS3000, AS2000, AS200, AS800, Varian 8400, 8410, CP-9010, CP-9050	23	0.63	50	Cone			-	-
002986	10µL Fixed Needle, 50mm Needle Length, 0.47mm Needle OD (26 gauge), Cone Tipped, 6 pack, for CTC Autosampler, Thermo, TriPlus	26	0.47	50	Cone			-	-
002987	10µL Gas Tight, PTFE Tipped Plunger, Fixed Needle, 50mm Needle Length, 0.63mm Needle OD (23 gauge), Cone Tipped, for CTC Autosampler, Thermo, TriPlus, AS2000	23	0.63	50	Cone		P	-	031803
002992	10µL Fixed Needle, 0.47mm Needle OD (26 gauge), 80mm Needle Length, Cone Tipped, for CTC Autosampler, Thermo TriPlus	26	0.47	80	Cone			-	-
<b>Removable needle</b>									
000490	0.5µL Plunger-in-Needle (6.5mm OD barrel), Removable Needle, 0.47mm Needle OD (26 gauge), 50mm Needle Length, for CTC Autosampler, Thermo, TriPlus, AS3000	26	0.47	50	Cone			-	033770
000492	0.5µL Plunger-in-Needle (6.5mm OD barrel), Removable Needle, 0.63mm Needle OD (23 gauge), 50mm Needle Length, for CTC Autosampler, Thermo, TriPlus, AS3000	23	0.63	50	Cone			-	033772
000790	2µL Plunger-in-Needle (8mm OD barrel), Removable Needle, 50mm Needle Length, 0.63mm Needle OD (23 gauge), for CTC Autosampler, Thermo TriPlus, AS3000	23	0.63	50	Cone			034905*	034905*

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002982	10µL Removable Needle, 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler, Thermo, TriPlus, AS3000, AS2000, Varian 8400, 8410, CP-9010, CP-9050	26	0.47	50	Cone			-	037010
002984	10µL Removable Needle, 0.63mm Needle OD (23 gauge), 50mm Needle Length, Cone Tipped, for CTC Autosampler, Thermo, Triplus, AS3000, AS2000, AS200, AS800	23	0.63	50	Cone			-	037787
002993	10µL Removable Needle, 0.47mm Needle OD (26 gauge), 80mm Needle Length, Cone Tipped, for CTC Autosampler, Thermo, TriPlus	26	0.47	80	Cone			-	031535
<b>Thermo AS3000 syringes</b>									
<b>Fixed needle</b>									
0019811	5µL Plunger-in-Needle (8mm OD barrel), 0.63mm Needle OD (23 gauge), 50mm Needle Length, Cone Tipped, sheathed, Thermo AS3000, AS2000	23	0.63	50	Cone			-	-
0019821	5µL Plunger-in-Needle (8mm OD barrel), 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, sheathed, Thermo AS3000, AS2000	26	0.47	50	Cone			-	-
0029671	10µL Fixed Needle Syringe with 5cm 0.50mm OD (25 gauge), Cone Tipped Needle, for Thermo Autosamplers AS3000, AS2000, AS800/200	25	0.50	50	Cone			-	-
0029761	10µL Fixed Needle Syringe with Gas Tight Plunger & 5cm, 0.47mm OD (26 gauge) Cone Tipped Needle, for Thermo Autosamplers AS3000, AS2000, AS800/200, PK6	26	0.47	50	Cone		P	-	03181201
0029771	10µL Gas Tight, Fixed Needle, 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, for Thermo AS3000, AS2000, AS200/800	26	0.47	50	Cone		P	-	03181201
0029801	10µL Fixed Needle, Plunger-in-Needle (8mm barrel OD), 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, for Thermo AS3000, AS2000, AS200/800	26	0.47	50	Cone			-	-
0029861	10µL Fixed Needle Syringe with 5cm, 0.47mm OD (26 gauge) Cone Tipped Needle, for Thermo Autosamplers AS3000, AS2000, AS800/200, PK6	26	0.47	50	Cone			-	-
<b>Removable needle</b>									
000490	0.5µL Plunger-in-Needle (6.5mm OD barrel), Removable Needle, 0.47mm Needle OD (26 gauge), 50mm Needle Length, for CTC Autosampler, Thermo, TriPlus, AS3000	26	0.47	50	Cone			-	033770
000492	0.5µL Plunger-in-Needle (6.5mm OD barrel), Removable Needle, 0.63mm Needle OD (23 gauge), 50mm Needle Length, for CTC Autosampler, Thermo, TriPlus, AS3000	23	0.63	50	Cone			-	033772
000790	2µL Plunger-in-Needle (8mm OD barrel), Removable Needle, 50mm Needle Length, 0.63mm Needle OD (23 gauge), for CTC Autosampler, Thermo TriPlus, AS3000	23	0.63	50	Cone			034905*	034905*
0029841	10µL Removable Needle, Plunger-in-Needle (8mm barrel OD), 0.63mm Needle OD (23 gauge), 50mm Needle Length, Cone Tipped, for Thermo AS3000, AS2000, AS200/800	23	0.63	50	Cone			037787	-
<b>Thermo AS2000 syringes</b>									
<b>Fixed needle</b>									
0019811	5µL Plunger-in-Needle (8mm OD barrel), 0.63mm Needle OD (23 gauge), 50mm Needle Length, Cone Tipped, sheathed, Thermo AS3000, AS2000	23	0.63	50	Cone			-	-
0019821	5µL Plunger-in-Needle (8mm OD barrel), 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, sheathed, Thermo AS3000, AS2000	26	0.47	50	Cone			-	-
0029671	10µL Fixed Needle Syringe with 5cm 0.50mm OD (25 gauge), Cone Tipped Needle, for Thermo Autosamplers AS3000, AS2000, AS800/200	25	0.50	50	Cone			-	-
0029741	10µL Fixed Needle Syringe with 8cm, 0.72mm OD (22 gauge) Cone Tipped Needle, for Thermo Autosampler AS2000	22	0.72	80	Cone			-	-

## Syringes | Syringes and needles for LEAP autosamplers

Part number	Part description and detail	Needle gauge	Needle OD (mm)	Needle length (mm)	Needle tip	Barrel OD (mm)	PTFE plunger tip	Replacement needle	Replacement plunger
0029761	10µL Fixed Needle Syringe with Gas Tight Plunger & 5cm, 0.47mm OD (26 gauge) Cone Tipped Needle, for Thermo Autosamplers AS3000, AS2000, AS800/200, PK6	26	0.47	50	Cone		P	-	03181201
0029771	10µL Gas Tight, Fixed Needle, 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, for Thermo AS3000, AS2000, AS200/800	26	0.47	50	Cone		P	-	03181201
0029781	10µL Fixed Needle, Plunger-in-Needle (8mm barrel OD), 0.47mm Needle OD (26 gauge), 70mm Needle Length, Cone Tipped, for Thermo AS2000	26	0.47	70	Cone			-	-
0029801	10µL Fixed Needle, Plunger-in-Needle (8mm barrel OD), 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, for Thermo AS3000, AS2000, AS200/800	26	0.47	50	Cone			-	-
0029861	10µL Fixed Needle Syringe with 5cm, 0.47mm OD (26 gauge) Cone Tipped Needle, for Thermo Autosamplers AS3000, AS2000, AS800/200, PK6	26	0.47	50	Cone			-	-
0029871	10µL Gas Tight, Fixed Needle, Plunger-in-Needle (8mm barrel OD), 0.63mm Needle OD (23 gauge), 50mm Needle Length, Cone Tipped, for Thermo AS2000	23	0.63	50	Cone		P	-	03181201
0029891	10µL Gas Tight, Fixed Needle, Plunger-in-Needle (8mm barrel OD), 0.63mm Needle OD (23 gauge), 80mm Needle Length, Cone Tipped, for Thermo AS2000	23	0.63	80	Cone			-	-
0029921	10µL Fixed Needle, 80mm Needle Length, 0.47mm Needle OD (26 gauge), Cone Tipped, for Thermo AS2000	26	0.47	80	Cone			-	-
<b>Removable needle</b>									
0029841	10µL Removable Needle, Plunger-in-Needle (8mm barrel OD), 0.63mm Needle OD (23 gauge), 50mm Needle Length, Cone Tipped, for Thermo AS3000, AS2000, AS200/800	23	0.63	50	Cone			037787	-
0029931	10µL Removable Needle, 80mm Needle Length, 0.47mm Needle OD (26 gauge), Cone Tipped, for Thermo AS2000	26	0.47	80	Cone			031535	-
<b>Thermo AS200/800 syringes</b>									
<b>Fixed needle</b>									
0029671	10µL Fixed Needle Syringe with 5cm 0.50mm OD (25 gauge), Cone Tipped Needle, for Thermo Autosamplers AS3000, AS2000, AS800/200	25	0.50	50	Cone			-	-
0029761	10µL Fixed Needle Syringe with Gas Tight Plunger & 5cm, 0.47mm OD (26 gauge) Cone Tipped Needle, for Thermo Autosamplers AS3000, AS2000, AS800/200, PK6	26	0.47	50	Cone		P	-	03181201
0029801	10µL Fixed Needle, Plunger-in-Needle (8mm barrel OD), 0.47mm Needle OD (26 gauge), 50mm Needle Length, Cone Tipped, for Thermo AS3000, AS2000, AS200/800	26	0.47	50	Cone			-	-
0029861	10µL Fixed Needle Syringe with 5cm, 0.47mm OD (26 gauge) Cone Tipped Needle, for Thermo Autosamplers AS3000, AS2000, AS800/200, PK6	26	0.47	50	Cone			-	-
<b>Removable needle</b>									
0029841	10µL Removable Needle, Plunger-in-Needle (8mm barrel OD), 0.63mm Needle OD (23 gauge), 50mm Needle Length, Cone Tipped, for Thermo AS3000, AS2000, AS200/800	23	0.63	50	Cone			037787	-
<b>GC headspace applications</b>									
<b>CombiPAL, Combi-xt headspace syringes</b>									
<b>Fixed needle</b>									
008131	1.0mL Fixed Needle CTC Headspace Syringe with Energized Gas Tight Plunger and 5.6cm 0.63mm OD (23 gauge), Side-hole Needle	23	0.63	56	Side-hole	7.6	P		031841
008136	1.0mL Fixed Needle CTC Headspace Syringe with Energized Gas Tight Plunger and 5.6cm 0.47mm OD (26 gauge), Side-hole Needle	26	0.47	56	Side-hole	7.6	P		031841
008631	2.5mL Fixed Needle CTC Headspace Syringe with Energized Gas Tight Plunger and 5.6cm 0.63mm OD (23 gauge), Side-hole Needle	23	0.63	56	Side-hole	9.7	P	-	031851

## Syringes | Syringes and needles for LEAP autosamplers

Part number	Part description and detail	Needle gauge	Needle OD (mm)	Needle length (mm)	Needle tip	Barrel OD (mm)	PTFE plunger tip	Replacement needle	Replacement plunger
008636	2.5mL Fixed Needle CTC Headspace Syringe with Energized Gas Tight Plunger and 5.6cm 0.47mm OD (26 gauge), Side-hole Needle	26	0.47	56	Side-hole	9.7	P	-	031851
008831	5mL Fixed Needle CTC Headspace Syringe with Energized Gas Tight Plunger and 5.6cm 0.63mm OD (23 gauge), Side-hole Needle	23	0.63	56	Side-hole	14	P	-	-
<b>PAL3, RTC, RSI headdress syringes</b>									
<b>Fixed needle</b>									
008155	1.0mL Fixed Needle CTC RTC Autosampler & Thermo RSH Headspace Syringe with Energized Gas Tight Plunger and 6.5cm 0.63mm OD (23 gauge), Side-hole Needle	23	0.63	65	Side-hole		P	-	032841
008655	2.5mL Fixed Needle CTC RTC Autosampler & Thermo RSH Headspace Syringe with Energized Gas Tight Plunger and 6.5cm 0.63mm OD (23 gauge), Side-hole Needle	23	0.63	65	Side-hole		P	-	032846
008855	5mL Fixed Needle CTC RTC Autosampler & Thermo RSH Headspace Syringe with Energized Gas Tight Plunger and 6.5cm 0.63mm OD (23 gauge), Side-hole Needle	23	0.63	65	Side-hole		P	-	-
<b>HDX (Hydrogen Deuterium Exchange) applications</b>									
<b>PAL3, RTC, RSI, LSI syringes for HDX</b>									
002854	10µL Fixed Needle CTC RTC Autosampler for HDX application, Gas Tight, PTFE Plunger tip, 85mm Needle, 22 gauge, 0.72mm Needle OD	22	0.72	85	LC		P	-	-
003854	25µL Fixed Needle CTC RTC Autosampler for HDX application, Gas Tight, PTFE Plunger tip, 85mm Needle, 22 gauge, 0.72mm Needle OD	22	0.72	85	LC		P	-	-
005854	100µL Fixed Needle CTC RTC Autosampler for HDX application, Gas Tight, PTFE Plunger tip, 85mm Needle, 22 gauge, 0.72mm Needle OD	22	0.72	85	LC		P	-	-
006854	250µL Fixed Needle CTC RTC Autosampler for HDX application, Gas Tight, PTFE Plunger tip, 85mm Needle, 22 gauge, 0.72mm Needle OD	22	0.72	85	LC		P	-	-
<b>LC applications</b>									
<b>HTS, HTC, LC PAL, HTS-xt, HTC-xt syringes</b>									
<b>Fixed needle</b>									
002710	10µL Fixed Needle, 51mm Needle Length, 0.72mm Needle OD (22 gauge), LC tip, for CTC Autosampler	22	0.72	51	LC	6.5		-	-
002715	10µL Fixed Needle, 51mm Needle Length, Gas Tight, PTFE Plunger tip, 0.72mm Needle OD (22 gauge), LC tip, for CTC Autosampler	22	0.72	51	LC	6.5	P	-	031803
003715	25µL Fixed Needle, CTC Autosampler, PTFE Tipped Plunger, Gas Tight, 5.1cm 0.72mm OD (22 gauge), LC Needle, 8mm OD barrel	22	0.72	51	LC	7.6	P	-	0318922
004810	50µL Fixed Needle, CTC Autosampler, PTFE Tipped Plunger, Gas Tight, 5.1cm 0.72mm OD (22 gauge), LC Needle	22	0.72	51	LC	6.5	P	-	031821
005715	100µL Fixed Needle, CTC Autosampler, PTFE Tipped Plunger, Gas Tight, 5.1cm 0.72mm OD (22 gauge), LC Needle	22	0.72	51	LC	6.5	P	-	0318261
005720	100µL Fixed Needle, CTC Autosampler, PTFE Tipped Plunger, Gas Tight, 5.1cm 0.72mm OD (22 gauge), 0.4mm ID LC Needle	22	0.72	51	LC	6.5	P	-	0318924
005331	100µL Fixed Needle CTC/Thermo Syringe with Gas Tight Plunger & 5.1cm 0.72mm OD (22 gauge), LC Needle	22	0.72	51	LC	6.5	P		0318261
006720	250µL Fixed Needle, CTC Autosampler, PTFE Tipped Plunger, Gas Tight, 5.1cm 0.72mm OD (22 gauge), LC Needle	22	0.72	51	LC	8	P	-	0318926
007720	500µL Fixed Needle, CTC Autosampler, PTFE Tipped Plunger, Gas Tight, 5.1cm 0.72mm OD (22 gauge), 0.4mm ID LC Needle	22	0.72	51	LC	8	P	-	0318928



## Syringes | Syringes and needles for LEAP autosamplers

Part number	Part description and detail	Needle gauge	Needle OD (mm)	Needle length (mm)	Needle tip	Barrel OD (mm)	PTFE plunger tip	Replacement needle	Replacement plunger
<b>Removable needle</b>									
005330	100µL Removable Needle, CTC Thermo Autosampler, PTFE Tipped Plunger, Gas Tight, 5.1cm 0.72mm OD (22 gauge), LC Needle	22	0.72	51	LC	6.5	P	038250	0318261
006330	250µL Removable Needle, CTC Autosampler, PTFE Tipped Plunger, Gas Tight, 5.1cm 0.72mm OD (22 gauge), 0.4mm ID LC Needle	22	0.72	51	LC	6.5	P	038250	031831
008120	1mL Removable Needle, CTC Autosampler, PTFE Plunger tip, Gas Tight, 51mm Needle, 22 g, with LC tip, 7.6mm barrel OD	22	0.72	51	LC	7.6	P	039180	0318444
008820	5mL Removable Needle, CTC Autosampler, PTFE Plunger tip, Gas Tight, 51mm Needle, 22 g, with LC tip, 14mm barrel OD	22	0.72	51	LC	14	P	031535	0318564
<b>PAL3, RTC, RSI, LSI syringes</b>									
<b>Removable needle</b>									
002880	10µL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with Gas Tight Plunger & 5.7cm 0.72mm OD (22 gauge), LC Needle	22	0.72	57	LC		P	037880	032810
008151	1.0mL Removable Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.72mm OD (22 gauge), LC Tipped Needle	22	0.72	57	LC		P	039280	032842
008951	10mL Removable Needle CTC RTC & Thermo RSH Autosampler Syringe with Gas Tight Plunger & 5.7cm 1.07mm O (19 gauge) ID LC Tipped Needle	19	1.07	57	LC		P	031590	032855
<b>PAL3, RTC, RSI, LSI syringes</b>									
<b>Fixed needle</b>									
008150	1.0mL Fixed Needle CTC RTC Autosampler & Thermo RSH Syringe with Gas Tight Plunger & 5.7cm 0.72mm OD (22 gauge), LC Tipped Needle	22	0.72	57	LC		P	-	032842
008950	10mL Fixed Needle CTC RTC & Thermo RSH Autosampler Syringe with Gas Tight Plunger & 5.7cm 1.07mm OD (19 gauge) LC Tipped Needle	19	1.07	57	LC		P	-	032855
<b>MS applications</b>									
<b>MS removable needle syringes. Needle available separately</b>									
<b>CTC PALs syringes (no needle included)</b>									
002770	10µL Gas Tight, Removable Needle, Diamond version, for CTC Autosamplers, syringe body and Plunger only, Needle available separately						P	-	0355170
003770	25µL Removable Needle CTC MS Syringe with Gas Tight Plunger, syringe body and Plunger only, Needle available separately						P	-	0355171
004770	50µL Removable Needle CTC MS Syringe with Gas Tight Plunger, syringe body and Plunger only, Needle available separately						P	-	0355172
005770	100µL Removable Needle CTC MS Syringe with Gas Tight Plunger, syringe body and Plunger only, Needle available separately						P	-	0355173
<b>CTC RTC, RSI, LSI PALs syringes (no needle included)</b>									
002790	10µL Gas Tight, Removable Needle, Diamond version, for Thermo RSH & CTC RTC Autosamplers, syringe body and Plunger only, Needle available separately						P	-	0355190
003790	25µL Removable Needle CTC RTC & Thermo RSH Autosampler MS Syringe with Gas Tight Plunger, syringe body and Plunger only, Needle available separately						P	-	0355191
004790	50µL Removable Needle CTC RTC & Thermo RSH Autosampler MS Syringe with Gas Tight Plunger, syringe body and Plunger only, Needle available separately						P	-	0355192
005790	100µL Removable Needle CTC RTC & Thermo RSH Autosampler MS Syringe with Gas Tight Plunger, syringe body and Plunger only, Needle available separately						P	-	0355193

## Syringes | Syringes and needles for LEAP autosamplers

Part number	Part description and detail	Needle gauge	Needle OD (mm)	Needle length (mm)	Needle tip	Barrel OD (mm)	PTFE plunger tip	Replacement needle	Replacement plunger
<b>MS treated needles</b>									
<b>To be used with MS syringe sizes 10 µL - 50 µL for LC CTC PALs (CTC RTC, RSI, LSI choose 57 mm)</b>									
0355210	Needle, MS, 51mm long, 0.72mm OD (22 gauge)/0.17mm ID, LC tip, Ultra Smooth Hydrophilic Treatment, for 10-50µL PK1	22	0.72	51	LC			-	-
0355215	Needle, MS, 57mm long, 0.72mm OD (22 gauge)/0.17mm ID, LC tip, Ultra Smooth Hydrophilic Treatment, for 10-50µL PK1	22	0.72	57	LC			-	-
0355220	Needle, MS, 51mm long, 0.72mm OD (22 gauge)/0.17mm ID, LC tip, Ultra Smooth Hydrophobic Treatment, for 10-50µL PK1	22	0.72	51	LC			-	-
0355225	Needle, MS, 57mm long, 0.72mm OD (22 gauge)/0.17mm ID, LC tip, Ultra Smooth Hydrophobic Treatment, for 10-50µL PK1	22	0.72	57	LC			-	-
0355230	Needle, MS, 51mm long, 0.72mm OD (22 gauge)/0.17mm ID, LC tip, Ultra Smooth, for 10-50µL PK1	22	0.72	51	LC			-	-
0355235	Needle, MS, 57mm long, 0.72mm OD (22 gauge)/0.17mm ID, LC tip, Ultra Smooth, for 10-50µL PK1	22	0.72	57	LC			-	-
<b>To be used with MS syringe sizes 10 µL - 50 µL for GC CTC PALs</b>									
0355510	Needle, MS, 50mm long, for CTC Autosamplers, 0.63mm OD(23 gauge)/0.24mm ID, Cone Tipped, Ultra Smooth Hydrophilic Treatment, for 10-50µL PK1	23	0.63	50	Cone			-	-
0355512	Needle, MS, 50mm long, for CTC Autosamplers, 0.63mm OD(23 gauge)/0.11mm ID, Cone Tipped, Ultra Smooth Hydrophilic Treatment, for 10-50µL PK1	23	0.63	50	Cone			-	-
0355520	Needle, MS, 50mm long, for CTC Autosamplers, 0.63mm OD(23 gauge)/0.24mm ID, Cone Tipped, Ultra Smooth Hydrophobic Treatment, for 10-50µL PK1	23	0.63	50	Cone			-	-
0355522	Needle, MS, 50mm long, for CTC Autosamplers, 0.63mm OD(23 gauge)/0.11mm ID, Cone Tipped, Ultra Smooth Hydrophobic Treatment, for 10-50µL PK1	23	0.63	50	Cone			-	-
0355530	Needle, MS, 50mm long, for CTC Autosamplers, 0.63mm OD(23 gauge)/0.24mm ID, Cone Tipped, Ultra Smooth, for 10-50µL PK1	23	0.63	50	Cone			-	-
0355532	Needle, MS, 50mm long, for CTC Autosamplers, 0.63mm OD(23 gauge)/0.11mm ID, Cone Tipped, Ultra Smooth, for 10-50µL PK1	23	0.63	50	Cone			-	-
<b>To be used with MS syringe sizes 10 µL - 50 µL for GC CTC RTC, RSI, LSI PALs</b>									
0355610	Needle, MS, 57mm long, for Thermo RSH/CTC RTC Autosamplers, 0.63mm OD (23 gauge)/0.24mm ID, Cone Tipped, Ultra Smooth Hydrophilic Treatment, for 10-50µL PK1	23	0.63	57	Cone			-	-
0355612	Needle, MS, 57mm long, for Thermo RSH/CTC RTC Autosamplers, 0.63mm OD (23 gauge)/0.11mm ID, Cone Tipped, Ultra Smooth Hydrophilic Treatment, for 10-50µL PK1	23	0.63	57	Cone			-	-
0355620	Needle, MS, 57mm long, for Thermo RSH/CTC RTC Autosamplers, 0.63mm OD (23 gauge)/0.24mm ID, Cone Tipped, Ultra Smooth Hydrophobic Treatment, for 10-50µL PK1	23	0.63	57	Cone			-	-
0355622	Needle, MS, 57mm long, for Thermo RSH/CTC RTC Autosamplers, 0.63mm OD (23 gauge)/0.11mm ID, Cone Tipped, Ultra Smooth Hydrophobic Treatment, for 10-50µL PK1	23	0.63	57	Cone			-	-
0355630	Needle, MS, 57mm long, for Thermo RSH/CTC RTC Autosamplers, 0.63mm OD (23 gauge)/0.24mm ID, Cone Tipped, Ultra Smooth, for 10-50µL PK1	23	0.63	57	Cone			-	-
0355632	Needle, MS, 57mm long, for Thermo RSH/CTC RTC Autosamplers, 0.63mm OD (23 gauge)/0.11mm ID, Cone Tipped, Ultra Smooth, for 10-50µL PK1	23	0.63	57	Cone			-	-

## Syringes | Syringes and needles for LEAP autosamplers

Part number	Part description and detail	Needle gauge	Needle OD (mm)	Needle length (mm)	Needle tip	Barrel OD (mm)	PTFE plunger tip	Replacement needle	Replacement plunger
<b>To be used with MS 100 µL syringe for GC CTC PALs</b>									
0355511	Needle, MS, 50mm long, for CTC Autosamplers, 0.63mm OD (23 gauge)/0.24mm ID, Cone Tipped, Ultra Smooth Hydrophilic Treatment, for 100-500µL PK1	23	0.63	50	Cone			-	-
0355521	Needle, MS, 50mm long, for CTC Autosamplers, 0.63mm OD (23 gauge)/0.24mm ID, Cone Tipped, Ultra Smooth Hydrophobic Treatment, for 100-500µL PK1	23	0.63	50	Cone			-	-
0355531	Needle, MS, 50mm long, for CTC Autosamplers, 0.63mm OD (23 gauge)/0.24mm ID, Cone Tipped, Ultra Smooth, for 100-500µL PK1	23	0.63	50	Cone			-	-
<b>To be used with MS 100 µL syringe for GC CTC RTC, RSI, LSI PALs</b>									
0355611	Needle, MS, 57mm long, for Thermo RSH/ CTC RTC Autosamplers, 0.63mm OD (23 gauge)/0.24mm ID, Cone Tipped, Ultra Smooth Hydrophilic Treatment, for 100-500µL PK1	23	0.63	57	Cone			-	-
0355621	Needle, MS, 57mm long, for Thermo RSH/ CTC RTC Autosamplers, 0.63mm OD (23 gauge)/0.24mm ID, Cone Tipped, Ultra Smooth Hydrophobic Treatment, for 100-500µL PK1	23	0.63	57	Cone			-	-
0355631	Needle, MS, 57mm long, for Thermo RSH/ CTC RTC Autosamplers, 0.63mm OD (23 gauge)/0.24mm ID, Cone Tipped, Ultra Smooth, for 100-500µL PK1	23	0.63	57	Cone			-	-
<b>To be used with MS syringe sizes 100 µL - 500 µL for LC CTC PALs (CTC RTC, RSI, LSI choose 57 mm)</b>									
0355211	Needle, MS, 51mm long, 0.72mm OD (22 gauge)/0.17mm ID, LC tip, Ultra Smooth Hydrophilic Treatment, for 100-500µL PK1	22	0.72	51	LC			-	-
0355213	Needle, MS, 51mm long, 0.72mm OD (22 gauge)/0.37mm ID, LC tip, Ultra Smooth Hydrophilic Treatment, for 100-500µL PK1	22	0.72	51	LC			-	-
0355216	Needle, MS, 57mm long, 0.72mm OD (22 gauge)/0.17mm ID, LC tip, Ultra Smooth Hydrophilic Treatment, for 100-500µL PK1	22	0.72	57	LC			-	-
0355221	Needle, MS, 51mm long, 0.72mm OD (22 gauge)/0.17mm ID, LC tip, Ultra Smooth Hydrophobic Treatment, for 100-500µL PK1	22	0.72	51	LC			-	-
0355223	Needle, MS, 51mm long, 0.72mm OD (22 gauge)/0.37mm ID, LC tip, Ultra Smooth Hydrophobic Treatment, for 100-500µL PK1	22	0.72	51	LC			-	-
0355226	Needle, MS, 57mm long, 0.72mm OD (22 gauge)/0.17mm ID, LC tip, Ultra Smooth Hydrophobic Treatment, for 100-500µL PK1	22	0.72	57	LC			-	-
0355231	Needle, MS, 51mm long, 0.72mm OD (22 gauge)/0.17mm ID, LC tip, Ultra Smooth, for 100-500µL PK1	22	0.72	51	LC			-	-
0355233	Needle, MS, 51mm long, 0.72mm OD (22 gauge)/0.37mm ID, LC tip, Ultra Smooth, for 100-500µL PK1	22	0.72	51	LC			-	-
0355236	Needle, MS, 57mm long, 0.72mm OD (22 gauge)/0.17mm ID, LC tip, Ultra Smooth, for 100-500µL PK1	22	0.72	57	LC			-	-

\*Replacement needle and plunger kit.

Every effort has been made to ensure the items suggested here are suitable, however the appropriateness for individual applications must remain the responsibility of the user.

For more information about this product visit [www.trajanscimed.com](http://www.trajanscimed.com) or contact [techsupport@trajanscimed.com](mailto:techsupport@trajanscimed.com)