

# Tools & Syringes



## Liquid Tools & Syringes

Part No.	Description	Compatible with:	
		RTC	RSI
PAL3-TH-D757	Universal Liquid Syringe Tool for syringes of 0.5µL, 1.2µL, 5µL, 10µL, 25µL, 50µL or 100µL with a needle length of 57mm Syringes not included, requires firmware version 1.3.0 or higher	X	X
PAL3-TH-D785	Universal Liquid Syringe Tool for syringes of 0.5µL, 1.2µL, 5µL, 10µL, 25µL, 50µL or 100µL with a needle length of 85mm Syringes not included, requires firmware version 1.3.0 or higher	X	X
PAL3-TH-D857	Universal Liquid Syringe Tool for syringes of 250µL, 500µL or 1000µL with a needle length of 57mm Syringes not included, requires firmware version 1.3.0 or higher	X	X
PAL3-TH-D885	Universal Liquid Syringe Tool for syringes of 250µL, 500µL or 1000µL with a needle length of 85mm Syringes not included, requires firmware version 1.3.0 or higher	X	X
PAL3-TH-D1857	Liquid Syringe Tool for a syringe of 2500µL, 5000µL, 10000µL with a needle length of 57mm Syringe not included, requires firmware version 1.3.0 or higher	X	X



### Recommended GC Syringes:

Part No.	Description	Tool compatibility
PAL3-SYH-207850	1µL Syringe for Tool D7/57: Needle length 57mm, Gauge 23P, Point Style AS, Scale 36mm	D7/57
PAL3-SYH-207800	5µL Syringe for Tool D7/57: Needle length 57mm, Gauge 26S, Point Style AS, Scale 54mm	D7/57
PAL3-SYS-002865	10µL Syringe for Tool D7/57: Needle length 57mm, Gauge 26, Point Style cone, Scale 54mm	D7/57
PAL3-SYH-207803	10µL Syringe for Tool D7/57: Needle length 57mm, Gauge 23S, Point Style AS, Scale 54mm	D7/57
PAL3-SYH-207807	10uL Syringe for Tool D7/57: Needle length 57mm, Gauge 26S, Point Style AS, Scale 54mm	D7/57
PAL3-SYH-207189	10µL Syringe for Tool D7/85: Needle length 85mm, Gauge 26S, Point Style AS, Scale 54mm	D7/85
PAL3-SYH-207817	25µL Syringe for Tool D7/57: Needle length 57mm, Gauge 26S, Point Style AS, Scale 60mm	D7/57
PAL3-SYH-207840	100µL Syringe for Tool D7/57: Needle length 57mm, Gauge 26S, Point Style AS, Scale 60mm	D7/57
PAL3-SYH-207827	100µL Syringe for Tool D7/85: Needle length 85mm, Gauge 26S, Point Style AS, Scale 60mm	D7/85
PAL3-SYH-207831	250µL Syringe for Tool D8/85: Needle length 85mm, Gauge 26, Point Style AS, Scale 60mm	D8/85
PAL3-SYH-207829	250µL Syringe for Tool D8/57: Needle length 57mm, Gauge 26, Point Style AS, Scale 60mm	D8/57
PAL3-SYH-207833	500µL Syringe for Tool D8/57: Needle length 57mm, Gauge 26, Point Style AS, Scale 60mm	D8/57
PAL3-SYH-207849	1000µL Syringe for Tool D8/57: Needle length 57mm, Gauge 23, Point Style AS, Scale 60mm	D8/57
PAL3-SYH-207827	100µL Syringe for Tool D7/85: Needle length 85mm, Gauge 26S, Point Style AS, Scale 60mm	D7/85

### Recommended LC Syringes

Part No.	Description	Tool compatibility
PAL3-SYH-207813	C-Line Syringe gastight 10µL, OD 6.6 mm, Scale 60mm, Fixed needle Gauge 22s, Pointstyle 3	D7/57
PAL3-SYH-208304	X-Line Syringe Gastight 25µL, For High-Throughput Application and Minimized Carry Over, OD 6.6mm, Scale 60mm, Fixed Needle Gauge 22s, Point Style 3	D7/57
PAL3-SYH-208311	X-Line Syringe Gastight 100µL, For High-Throughput Application and Minimized Carry Over, OD 6.6mm, Scale 60mm, Fixed Needle Gauge 22, Point Style 3	D7/57
PAL3-SYH-208312	X-Line Syringe Gastight 100µL, For High-Throughput Application and Minimized Carry Over, OD 6.6mm, Scale 60mm, Fixed Needle Gauge 22s, Point Style 3	D7/57
PAL3-SYH-207828	C-Line Syringe gastight 250µL, OD 7.7mm, Scale 60mm, Fixed needle Gauge 22, Pointstyle 3	D8/57
PAL3-SYH-207832	C-Line Syringe gastight 500µL, OD 7.7mm, Scale 60mm, Fixed needle Gauge 22, Pointstyle 3	D8/57
PAL3-SYH-207836	C-Line Syringe gastight 1000µL, OD 7.7mm, Scale 60mm, Fixed needle Gauge 22, Pointstyle 3	D8/57

### Recommended Prep Syringes

Part No.	Description	Tool compatibility
PAL3-SYH-209204	2500µL Syringe for Tool D18/57: Needle length 57mm, Gauge 22, Point Style 3, Scale 60mm	D18/57
PAL3-SYH-209205	5000µL Syringe for Tool D18/57: Needle length 57mm, Gauge 22, Point Style 3, Scale 60mm	D18/57
PAL3-SYS-008950	10000µL Syringe for Tool D18/57: Needle length 57mm, Gauge 19, Point Style LC, Scale 60mm	D18/57
PAL3-SYH-207292	10000µL Syringe for Tool D18/57: Needle length 57mm, Gauge 19, Point Style 3, Scale 60mm	D18/57

## Headspace Tools & Syringes

Part No.	Description	Compatible with:	
		RTC	RSI
PAL3-TH-HS1000	Headspace Syringe Tool for a 1000µL syringe with a needle length of 65mm Syringe not included	X	X
PAL3-TH-HS2500	Headspace Syringe Tool for a 2500µL syringe with a needle length of 65mm Syringe not included	X	X
PAL3-TH-HS5000	Headspace Syringe Tool for a 5000µL syringe with a needle length of 65mm Syringe not included	X	X

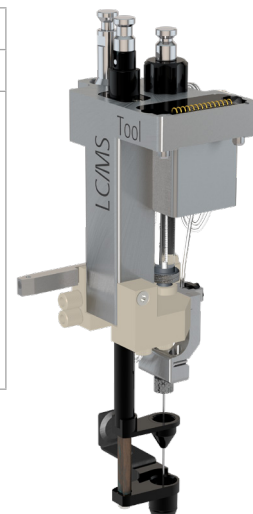


### Recommended GC Syringes:

Part No.	Description	Tool compatibility
PAL3-SYH-207853	Headspace Syringe 1000µL: Needle length 65mm, Gauge 23, Point Style 5	HS1000
PAL3-SYS-008155	Headspace Syringe 1000µL: Needle length 65mm, Gauge 23, Point Style 5	HS1000
PAL3-SYH-207290	Headspace Syringe 2500µL: Needle length 65mm, Gauge 23, Point Style 5	HS2500
PAL3-SYS-008655	Headspace Syringe 2500µL: Needle length 65mm, Gauge 23, Point Style 5	HS2500
PAL3-SYH-207854	Headspace Syringe 5000µL: Needle length 65mm, Gauge 23, Point Style 5	HS5000

## LCMS Tool

Part No.	Description	Compatible with:	
		RTC	RSI
PAL3-TH-LCMS-P	<p>LCMS-P Tool consisting of:</p> <ul style="list-style-type: none"> <li>1 pc LCMS-P Tool incl. Syringe, Needle and FEP Loop</li> <li>1 pc Pump Module and Connection Cable</li> <li>1 pc PFA Transfer tube 1/16"</li> <li>2 pc Solvent bottle 1000ml</li> <li>2 pc Aspirating tube 1/8"</li> </ul> <p>Attention: LCMS Wash Module not included. requires firmware version 2.1.0 or higher</p>	X	X



### Recommended Syringes and Needles

Part No.	Description	Tool compatibility
PAL3-SYH-207128	100µl Syringe for LCMS Tool, Gastight, ø 7.7mm, Scale Length 60 mm, Thread 1/4-28 UNF Removable Needle not included	LCMS
PAL3-SYH-LCMS-250-K	250µl Syringe for LCMS Tool, with Stop Nut for LCMS Tool, Gastight, ø 7.7mm, Scale Length 60 mm, Thread 1/4-28 UNF Removable Needle not included	LCMS
PAL3-LCMS-Ndl	Needle for PAL LCMS Tool, gauge 22 PST 3, length 51 mm (3 pcs per pack, incl. Needle Retaining Nut)	LCMS
PAL3-LCMS-Ndl-C	Coated Needle for PAL LCMS Tool, gauge 22 PST 3, length 51 mm (3 pcs per pack, incl. Needle Retaining Nut)	LCMS
PAL3-LCMS-Ndl-T	Titanium Needle for PAL LCMS Tool, gauge 22 PST 3, length 51 mm (incl. Needle Retaining Nut)	LCMS

## Pipette Tools

Part No.	Description	Compatible with:	
		RTC	RSI
PAL3-TH-Pip1000	Pipette tool for 1000uL Tips To use with PAL Disposable Tips: PAL3-PipTip-1000 and PAL3-Pip-Tip-1000F Tips and Racks for tips are not included requires firmware version 2.4.x or higher and PAL RTC	X	
PAL3-TH-Pip200	Pipette tool for 200uL Tips To use with PAL Disposable Tips: PAL3-PipTip-200 and PAL3-Pip-Tip-200F Tips and Racks for tips are not included requires firmware version 2.4.x or higher and PAL RTC	X	



### Recommended Pipette Tips:

Part No.	Description	Tool compatibility
PAL3-PipTip-1000	Pipette Tips 1000uL without Filter 10 pcs with 96 tips each	TH-Pip1000
PAL3-PipTip-1000F	Pipette Tips 1000uL with Filter 10 pcs with 96 tips each	TH-Pip1000
PAL3-PipTip-200	Pipette Tips 200uL without Filter 10 pcs with 96 tips each	TH-Pip200
PAL3-PipTip-200F	Pipette Tips 200uL with Filter 10 pcs with 96 tips each	TH-Pip200

### Recommended Rack for Pipette Tips:

Part No.	Description
PAL3-Rack-Pip-Tip	Tip rack for 96 PAL pipette tips Tips not included

## Dilutor Tool

Part No.	Description	Compatible with:	
		RTC	RSI
PAL3-TH-Dilutor	Tool Holder for Dilutor Option Attention: Does not include needles and tubing requires firmware version 2.1.0 or higher and Dilutor Option	X	X



### Recommended syringes:

Part No.	Description	Tool compatibility
PAL3-SYDIL-21834	100µL Dilutor Syringe, Scale 60mm, PTFE Plunger, ZDV (Zero Dead Volume)	Dilutor
PAL3-SYDIL-21835	1mL Dilutor Syringe, Scale 60mm, PTFE Plunger, ZDV (Zero Dead Volume)	Dilutor
PAL3-SYDIL-21836	5mL Dilutor Syringe, Scale 60mm, PTFE Plunger, ZDV (Zero Dead Volume)	Dilutor
PAL3-SYDIL-21837	10mL Dilutor Syringe, Scale 60mm, PTFE Plunger, ZDV (Zero Dead Volume)	Dilutor