PAL SYSTEM
Ingenious sample handling

PAL3 Autosampler Series
Accessories & Consumables
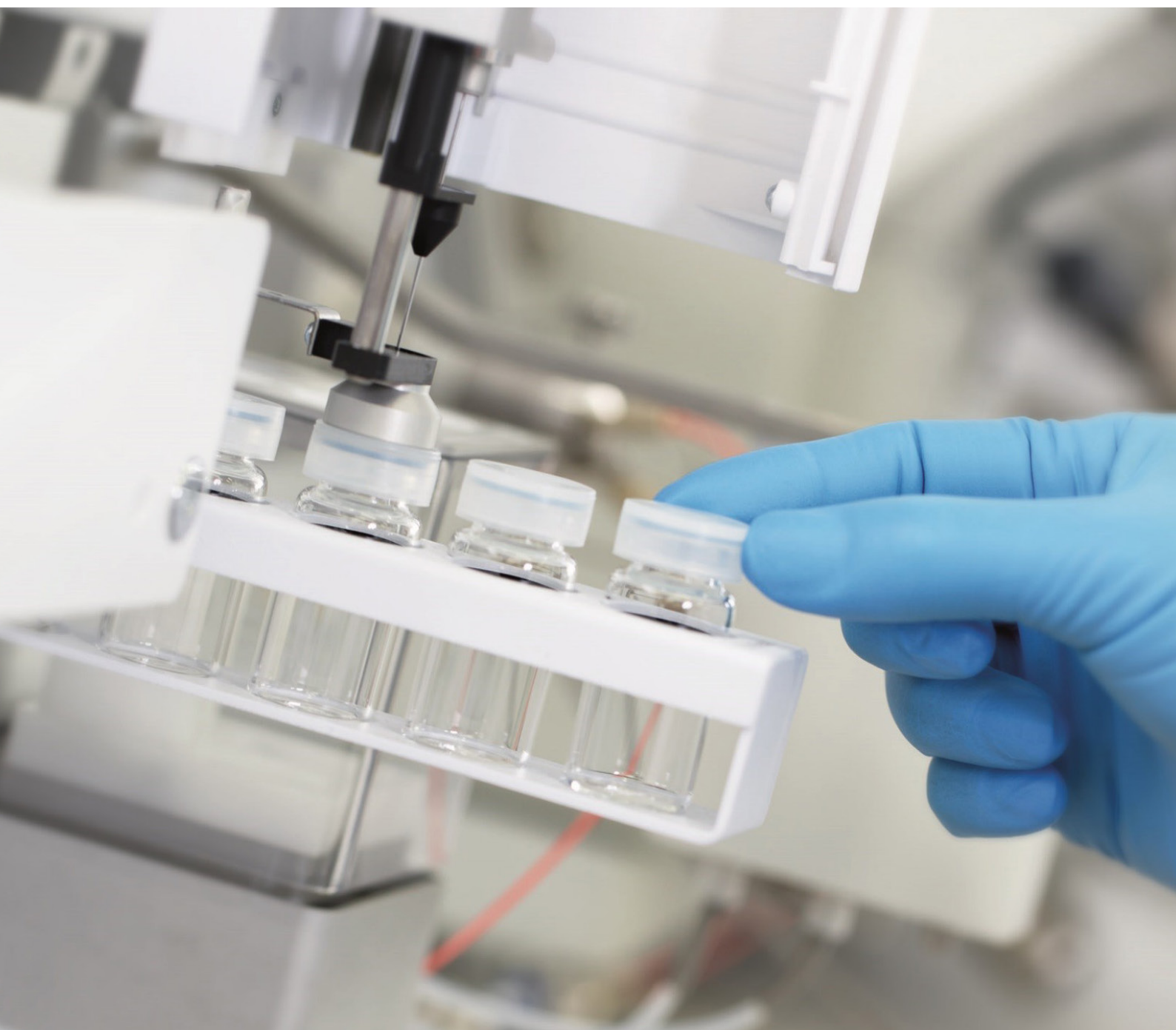
Tools & Syringes

Liquid Tools & Syringes

Part No.	Description	Compatible with:		
		RTC	RSI	LSI*
PAL3-TH-D757	Universal Liquid Syringe Tool for syringes of 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 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 10000µL with a needle length of 57mm Syringe not included, requires firmware version 1.3.0 or higher	X	X	

*Please note: Tools are only compatible with PAL RTC/RSI. The PAL LSI contains a fixed inserted adaptor for 10µl liquid syringes.

Recommended GC Syringes:

Part No.	Description	Bottom-Sense comp.	Tool compatibility	LSI 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	X	D7/57	X
PAL3-SYH-207803	10µL Syringe for Tool D7/57: Needle length 57mm, Gauge 23S, Point Style AS,Scale 54mm	X	D7/57	X
PAL3-SYH-207807	10uL Syringe for Tool D7/57: Needle length 57mm, Gauge 26S, Point Style AS, Scale 54mm	X	D7/57	X
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	X	D7/57	
PAL3-SYH-207840	100µL Syringe for Tool D7/57: Needle length 57mm, Gauge 26S, Point Style AS, Scale 60mm	X	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	X	D8/57	
PAL3-SYH-207833	500µL Syringe for Tool D8/57: Needle length 57mm, Gauge 26, Point Style AS, Scale 60mm	X	D8/57	
PAL3-SYH-207849	1000µL Syringe for Tool D8/57: Needle length 57mm, Gauge 23, Point Style AS, Scale 60mm	X	D8/57	
PAL3-SYH-207827	100µL Syringe for Tool D7/85: Needle length 85mm, Gauge 26S, Point Style AS, Scale 60mm		D7/85	

CAUTION: SYRINGES FOR LABORATORY USE ONLY - NOT FOR HUMAN IN VIVO USE

Recommended LC Syringes

Part No.	Description	Bottom-Sense comp.	Tool compatibility	LSI compatibility
PAL3-SYH-207813	C-Line Syringe gastight 10µL, OD 6.6 mm, Scale 60mm, Fixed needle Gauge 22s, Pointstyle 3	X	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	X	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	X	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	X	D7/57	
PAL3-SYH-207828	C-Line Syringe gastight 250µL, OD 7.7mm, Scale 60mm, Fixed needle Gauge 22, Pointstyle 3	X	D8/57	
PAL3-SYH-207832	C-Line Syringe gastight 500µL, OD 7.7mm, Scale 60mm, Fixed needle Gauge 22, Pointstyle 3	X	D8/57	
PAL3-SYH-207836	C-Line Syringe gastight 1000µL, OD 7.7mm, Scale 60mm, Fixed needle Gauge 22, Pointstyle 3	X	D8/57	

Recommended Prep Syringes

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

Headspace Tools & Syringes

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
PAL3-TH-HS1000	Headspace Syringe Tool for a 1000µL syringe with a needle length of 65mm Syringe not included, requires firmware version 1.3.0 or higher	X	X	
PAL3-TH-HS2500	Headspace Syringe Tool for a 2500µL syringe with a needle length of 65mm Syringe not included, requires firmware version 1.3.0 or higher	X	X	
PAL3-TH-HS5000	Headspace Syringe Tool for a 5000µL syringe with a needle length of 65mm Syringe not included, requires firmware version 1.3.0 or higher	X	X	

Recommended GC Syringes:

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

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LCMS Tool

Part No.	Description	RTC	RSI	LSI
PAL3-TH-LCMS-P	LCMS-P Tool consisting of: 1 pc LCMS-P Tool incl. Syringe, Needle and FEP Loop 1 pc Pump Module and Connection Cable 1 pc PFA Transfer tube 1/16" 2 pc Solvent bottle 1000ml 2 pc Aspirating tube 1/8" Attention: LCMS Wash Module not included. requires firmware version 2.1.0 or higher	X	X	

Recommended Syringes and Needles

Part No.	Description	Tool compatibility	LSI 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	

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Pipette Tools

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
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	LSI 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

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Dilutor Tool

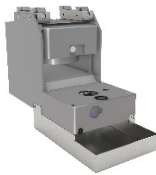| Part No.	Description	Compatible with:		
		RTC	RSI	LSI
PAL3-TH-Dilutor	Tool Holder for Dilutor Option Attention: Does not include needles and tubing requires firmware version 2.1.0 or higher and Dilutor Option	X	X	

Recommended syringes:

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

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Part No.	Description	Compatible with:			
		RTC	RSI	LSI	
PAL3-Agitator	Agitator for the incubation and agitation of up to 6x 20mL vials requires firmware version 1.3.0 or higher	X	X	X	
PAL3-BarcodeReader	Barcode Reader with 2 active laser scanners for all standard vials containing 1 dimension (1-D) barcode in a horizontal orientation requires firmware version 1.3.0 or higher	X	X	X	
PAL3-Decapper	PAL Decapper Module for opening and closing of initially closed 2mL, 10mL or 20mL vials PALsystem Vials with re-cappable vial caps are highly recommended for multiple opening and closing procedures within a workflow Requires FW Version 2.4 or higher	X			
PAL3-DilutorMulti	PAL Dilutor Option, consisting of: 1 pc Dilutor module 1 pc Connection cable 1 pc Dilutor Tool 1 pc Dilutor syringe 1mL 1 pc PFA Transfer tube 1/16" 5 pc Solvent bottle 1000ml 5 pc Aspirating tube 1/8" requires firmware version 2.1.0 or higher	X	X		
PAL3-DilutorSingle	PAL Dilutor Option, consisting of: 1 pc Dilutor module 1 pc Connection cable 1 pc Dilutor Tool 1 pc Dilutor syringe 1mL 1 pc PFA Transfer tube 1/16" 1 pc Solvent bottle 1000ml 1 pc Aspirating tube 1/8" requires firmware version 2.1.0 or higher	X	X		
PAL3-FlowCell	Flow-Cell for PALSystem to accommodate up to 6 flow cells, consisting of: 1 pc Holder 88mm 1 pc Flow-Cell Stainless Steel 316 with connectors Swagelok 1/4" 5 pcs Inlet Septa	X	X		
PAL3-HeatexStirrer	Heatex Stirrer for intensive heating and stirring of 1x 20mL vial without stir bar Specific Heatex Stirrer insert for 10mL vial available (not included) requires firmware version 2.3 or higher (use in combination with existing PAL3-Agitator)	X	X		
PAL3-MHE-Module	Multiple Headspace Module, consisting of MHE module, MHE tool and MHE needle Gauge 22/5	X	X		

Part No.	Description	Compatible with:			
		RTC	RSI	LSI	
PAL3-SPME-ArrowCond	SPME Conditioning Module for the conditioning of SPME arrows and SPME fibers Includes a second position for conditioning a replacement SPME arrow or SPME fiber requires firmware version 2.3 or higher	X	X		
PAL3-ValveDrive-R	Valve Drive Module for Rheodyne valve (without valve) consisting of: 1 pc Valve Drive Module 1 pc PAL Bus connection cable requires firmware version 1.4.0 or higher	X	X	X	
PAL3-ValveDrive-V	Valve Drive Module for Valco valve (without valve) consisting of: 1 pc Valve Drive module 1 pc PAL Bus connection cable requires firmware version 1.4.0 or higher	X	X	X	
PAL3-VortexMixer	Vortex Mixer for the intensive mixing of 1x 2mL, 10 or 20mL vials with an agitation speed between 0-2000 rpm requires firmware version 1.3.0 or higher	X	X	X	
PAL3-ParkStation-RTC	Park Station for the storage and robotic tool change of up to three PALtools like Liquid, HS, SPME, consisting of: 1 pc Park Station 1 pc Electrical connection cable requires firmware version 1.3.0 or higher	X			
PAL3-SolventModule	Solvent Module for 3x 100mL solvent bottles	X	X	X	
PAL3-WashFast	Fast Wash Module for two solvents (Needle Gauge 19 to 26), consisting of: 1 pc Wash Module with two wash positions and one Waste position 1 pc Pump Module with two solvent pumps 2 pc 1 liter solvent bottles with tubings and frits 1 pc PALbus connection cable requires firmware version 2.0.1 or higher	X	X	X	
PAL3-WashLarge	Large Wash Module for 2x 100mL solvent vials and one waste position	X	X	X	
PAL3-WashLCMS	Wash Module for LCMS Tool. with two wash positions and one waste position Requires FW 2.0.x or higher	X	X		
PAL3-WashStd	Standard Wash Module for up to 4x 10mL solvent vials and 1x 10mL waste vial	X	X	X	
PAL3-Terminal	Terminal for PAL3 System	X	X	X	

Trayholder, Stacks und Racks

Part No.	Description	Compatible with:			
		RTC	RSI	LSI	
PAL3-LiqCooler	Trayholder and sample tray for housing up to 32 vials of 10/20ml in the temperature range between 4°C- 70°C External circulator bath for heating/cooling not included	X	X	X	
PAL3-Trayholder	Tray Holder for up to 3 different MTP, DW plates or sample racks VT12, VT15, VT54, VT70 or 1 sample rack R60	X	X	X	
PAL3-Trayplate	Tray Plate for 3 microtiter / deepwell plates or racks (VT15, VT54 or VT70)	X	X	X	
PAL3-PeltierStack-12MT	Peltier Stack 12MT 4°C- 40°C for 12pcs Standard Microtiter Plates Including Power Supply and cables requires firmware version 1.5.0 or higher	X	X	X	
PAL3-PeltierStack2DW	Peltier Stack 2 DW 4°C- 40°C for 2pcs Standard Microtiter-, Deepwell Plates, VT15, VT54 or VT70 racks Including Power Supply and cables requires firmware version 1.4.0 or higher	X	X	X	
PAL3-PeltierStack6DW	Peltier Stack 6DW 4°C- 40°C for 6pcs Standard Microtiter-, Deepwell Plates, VT15, VT54 or VT70 racks Including Power Supply and cables requires firmware version 1.5.0 or higher	X	X	X	
PAL3-Stack12MT	Stack 12MT for 6pcs Standard Microtiter plates requires firmware version 2.2.0 or higher	X	X	X	
PAL3-Stack6DW	Stack 6DW for 6pcs Standard Microtiter-, Deepwell Plates, VT15, VT54 or VT70 racks requires firmware version 2.2.0 or higher	X	X	X	
PAL3-Kit-VT15	Sample Rack for 15 vials 10/20mL	X	X	X	
PAL3-Kit-VT54	Sample Rack for 54 vials 2mL	X	X	X	
PAL3-Rack-R60	Sample Rack for 60 vials of 10/20mL, Aluminum Vials not included	X	X	X	
PAL3-Rack-VT12	Sample Rack for 12 vials of 40mL. Vials are not included	X	X	X	
PAL3-Rack-VT15	Sample Rack for 15 vials of 10/20mL. Vials are not included	X	X	X	
PAL3-Rack-VT54	Sample Rack for 54 vials of 2mL. Vials are not included	X	X	X	
PAL3-Rack-VT70	Sample Rack for 70 vials of 1mL. Vials are not included	X	X	X	

ITEX Kit

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
PAL3-ITEX-Kit	PAL3 ITEX Tool, including: 1 pc ITEX Syringe 1.3mL (PAL3-SYH-209295) 2 pc ITEX Trap TENAX TA 80/100 mesh (PAL3-ITEX-Trap-TXTA100)	X	X	

ITEX Traps

Part No.	Description	Tool compatibility	LSI compatibility
PAL3-ITEX-Trap-Carb-S3	PAL3 ITEX Trap Carbosieve SIII -60/ 80 mesh	ITEX	
PAL3-ITEX-Trap-Carb1000	PAL3 ITEX Trap Carboxen 1000 -60/ 80 mesh	ITEX	
PAL3-ITEX-Trap-CarbC	PAL3 ITEX Trap Carbopack - C 80/100 mesh	ITEX	
PAL3-ITEX-Trap-Mix-1	PAL3 ITEX Trap Mix1 Tenax TA : Carboxen1000 (Bottom: Top - 1: 1)	ITEX	
PAL3-ITEX-Trap-Mix-2	PAL3 ITEX Trap Mix2 Carbopack C : Carbosieve SIII (Bottom: Top - 2: 1)	ITEX	
PAL3-ITEX-Trap-Mix-3	PAL3 ITEX Trap Mix3 Tenax GR : Carbosieve SIII (Bottom: Top - 1: 1)	ITEX	
PAL3-ITEX-Trap-TxGR	PAL3 ITEX Trap Tenax GR - 80/100 mesh	ITEX	
PAL3-ITEX-Trap-TXTA100	PAL3 ITEX Trap Tenax TA 80/100 mesh	ITEX	

ITEX Syringe

Part No.	Description	Tool compatibility	LSI compatibility
PAL3-SYH-209295	PAL3 ITEX Syringe 1.3mL	ITEX	

PAL SPME Kit

Part No.	Description	RTC	RSI	LSI
PAL3-System-SPME-Kit	SPME Kit, consisting of: 1 pc SPME Tool 1 pc SPME Fiber Holder 1 pc SPME Fiber Assortment Kit (FIB-SEL5-S1) 1 pc SPME Performance Evaluation Mix	X	X	

PAL SPME Fibers

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
FIB-A-85/10-P3	Acrylate SPME fiber (Polyacrylate) Fiber thickness 85µm, Fiber length 10mm, color code: gray, pack of 3pcs	X	X	
FIB-C-WR-95/10-P3	Carbon WR SPME fiber (Carbon Wide Range) Fiber thickness 95µm, Fiber length 10mm, color code: dark blue, pack of 3pcs	X	X	
FIB-DVB-65/10-P3	DVB / PDMS SPME fiber (Divinylbenzene / Polydimethylsiloxane), Fiber thickness 65µm, Fiber length 10mm, color code: violet, pack of 3pc	X	X	
FIB-DVB/C-WR-80/10-P3	DVB / Carbon WR / PDMS SPME fiber (Divinylbenzene / Carbon Wide Range / Polydimethylsiloxane), Fiber thickness 50/30µm, Fiber length 10mm, color code: dark gray, pack of 3pc	X	X	
FIB-P-100/10-P3	PDMS SPME fiber (Polydimethylsiloxane) Fiber thickness 100µm, Fiber length 10mm, color code: red, pack of 3pcs	X	X	
FIB-P-30/10-P3	PDMS SPME fiber (Polydimethylsiloxane) Fiber thickness 30µm, Fiber length 10mm, color code: golden, pack of 3pcs	X	X	
FIB-P-7/10-P3	PDMS SPME fiber (Polydimethylsiloxane) Fiber thickness 7µm, Fiber length 10mm, color code: green, pack of 3pcs	X	X	
FIB-SEL5-S1	Collection of five different SPME fibers with fiber length of 10mm and fiber thickness of: PDMS: 7µm, 30µm & 100µm Acrylate: 85µm Carbon WR: 95µm	X	X	
FIB-SEL5-S2	Collection of five different SPME fibers with fiber length of 10mm and fiber thickness of: PDMS: 100µm DVB: 65µm Carbon WR: 95µm Acrylate: 85µm DVB/Carbon WR: 80µm	X	X	
FIB-SEL7-S1	Collection of seven different SPME fibers with fiber length of 10mm and fiber thickness of: PDMS: 7µm, 30µm & 100µm, Acrylate: 85µm, Carbon WR: 95µm, DVB: 65µm, DVB/ Carbon WR: 80µm	X	X	

All PAL SPME Fibers are available as single Fibers, pack of 3 and pack of 5
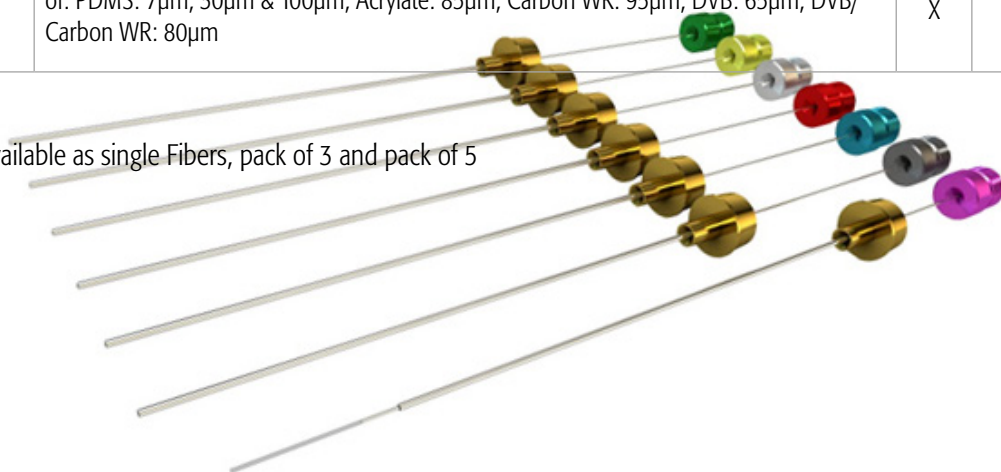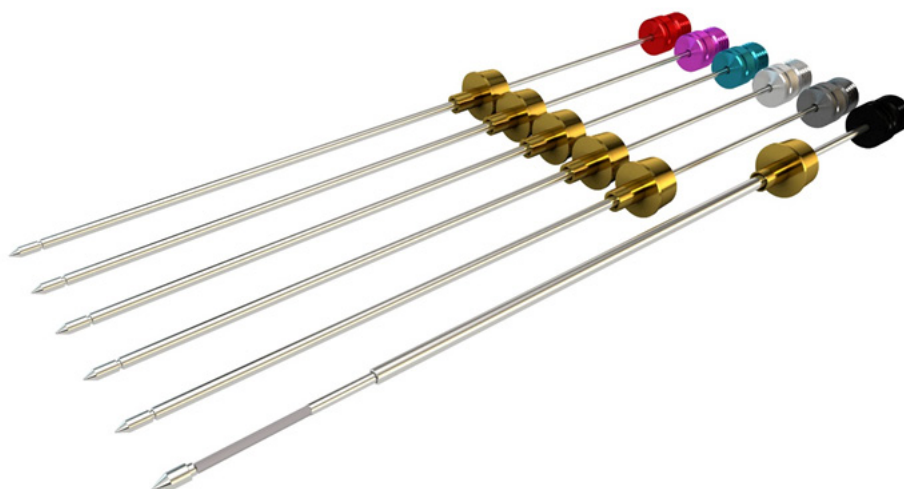
PAL SPME Arrow Options

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
PAL3-AgiHeatex-Kit	Agitator and Heatex Stirrer Kit for SPME Arrow consisting of: 1 Agitator for the incubation and agitation of up to 6x 20mL vials 1 Heatex Stirrer for intensive heating and stirring of 1x 20mL vial without stir bar Specific Heatex Stirrer insert for 10mL vial available (not included) Specific Agitator insert for 10 mL vials available (not included) requires firmware version 2.3 or higher and adapters for 10mL vials	X	X	
PAL3-Heatex-Ins-10mL	Specific insert for the Heatex Stirrer to stir one 10mL vial	X	X	
PAL3-Heatex-Ins-2mL	Specific insert for the Heatex Stirrer to stir one 2mL vial	X	X	
ARR-Man-Inj-Kit	Manual Injection Kit for SPME Arrow, consisting of: 1x Manual SPME Holder 1x Manual SPME Extraction Guide 1x Manual SPME Injection Guide			
PAL3-ARR-Start-GC2010	Starter Kit SPME Arrow for Shimadzu GC-2010 Plus consisting of: 1x Adaptation for the split/splitless injector of SHIMADZU GC-2010 Plus (ARR-SSL-Inj-GC2010) 1 pc Liner Nut 1 pc Screw Cap 2 pcs SPME Arrow Liner 1x PAL SPME Arrow Kit (PAL3-SPME-Arrow-Kit) 1 pc SPME Arrow Tool 1 pc SPME Arrow Holder 1 pc SPME Arrow Assortment Kit (ARR-SEL5-S1) 1 pc SPME Performance Evaluation Mix (only for SHIMADZU GC-2010 Plus, not suitable for use with GC-2010)	X	X	
PAL3-ARR-Start-GC6890	Starter Kit SPME Arrow for Agilent GC 6890 consisting of: 1 Adaptation for the split/splitless injector of AGILENT GC 6890 (ARR-SSL-Inj-GC6890) 2 SPME Arrow Liner for SSL Injector of Agilent GC 6890 1x PAL SPME Arrow Kit (PAL3-SPME-Arrow-Kit) 1 pc SPME Arrow Tool 1 pc SPME Arrow Holder 1 pc SPME Arrow Assortment Kit (ARR-SEL5-S1) 1 pc SPME Performance Evaluation Mix	X	X	
PAL3-ARR-Start-GC7890	Starter Kit SPME Arrow for Agilent GC 7890 consisting of: 1 Adaptation for the split/splitless injector of AGILENT GC 7890 (ARR-SSL-Inj-GC7890) 2 SPME Arrow Liner for SSL Injector of Agilent GC 7890 1x PAL SPME Arrow Kit (PAL3-SPME-Arrow-Kit) 1 pc SPME Arrow Tool 1 pc SPME Arrow Holder 1 pc SPME Arrow Assortment Kit (ARR-SEL5-S1) 1 pc SPME Performance Evaluation Mix	X	X	
PAL3-ARR-Start-Tr1300	Starter Kit SPME Arrow for Thermo GC Trace1300/1310 consisting of: 1 Adaptation for the split/splitless injector of Thermo GC Trace1300/1310 (ARR-SSL-Inj-Trace1300) 1 SPME Arrow Liner for SSL Injector of Thermo GC Trace1300/1310 Pk of 2 pcs 1x PAL SPME Arrow Kit (PAL3-SPME-Arrow-Kit) 1 pc SPME Arrow Tool 1 pc SPME Arrow Holder 1 pc SPME Arrow Assortment Kit (ARR-SEL5-S1) 1 pc SPME Performance Evaluation Mix	X	X	

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
PAL3-ARR-Start-TrUltra	Starter Kit SPME Arrow for Thermo GC TraceUltra consisting of: 1 Adaptation for the split/splitless injector of Thermo GC TraceUltra (ARR-SSL-Inj-TraceUltra) 2 SPME Arrow Liner for SSL Injector of Thermo GC TraceUltra 1x PAL SPME Arrow Kit (PAL3-SPME-Arrow-Kit) 1 pc SPME Arrow Tool 1 pc SPME Arrow Holder 1 pc SPME Arrow Assortment Kit (ARR-SEL5-S1) 1 pc SPME Performance Evaluation Mix	X	X	
PAL3-SPME-Arrow-Kit	SPME Arrow Kit consisting of: 1 pc SPME Arrow Tool 1 pc SPME Arrow Holder 1 pc SPME Arrow Assortment Kit (ARR-SEL5-S1) 1 pc SPME Performance Evaluation Mix	X	X	

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
ARR11-A-100/20-P3	SPME Arrow 1.10mm: Acrylate (Polyacrylate) Phase thickness 100µm, Phase length 20mm, color code: grey, pack of 3 pcs	X	X	
ARR11-C-WR-120/20-P3	SPME Arrow 1.10mm: Carbon WR/PDMS (Carbon Wide Range) Phase thickness 120µm, Phase length 20mm, color code: light blue, pack of 3 pcs	X	X	
ARR11-DVB-120/20-P3	SPME Arrow 1.10mm: DVB/PDMS (Divinylbenzene) Phase thickness 120µm, Phase length 20mm, color code: violett, pack of 3 pcs	X	X	
ARR11-DVB/ CWR110/20-P3	SPME Arrow 1.10mm: DVB/C-WR/PDMS (Divinylbenzene / Carbon WR / Polydimethylsiloxane), Phase thickness 110µm, Phase length 20mm, color code: dark gray, pack of 3 pc	X	X	
ARR11-P-100/20-P3	SPME Arrow 1.10mm: PDMS (Polydimethylsiloxane) Phase thickness 100µm, Phase length 20mm, color code: red, pack of 3 pcs	X	X	
ARR15-P-250/20-P3	SPME Arrow 1.5mm: PDMS (Polydimethylsiloxane) Phase thickness 250µm, Phase length 20mm, color code: black, pack of 3 pc	X	X	
ARR1115-SEL5-S1	Collection of five different SPME Arrows with phase length of 20mm: 1 pc SPME Arrow 1.10mm Acrylate (Polyacrylate), Phase thickness 100µm 1 pc SPME Arrow 1.10mm Carbon WR/PDMS (Carbon Wide Range), Phase thickness 120µm 1 pc SPME Arrow 1.10mm DVB/PDMS (Divinylbenzene) , Phase thickness 120µm 1 pc SPME Arrow 1.10mm PDMS (Polydimethylsiloxane) , Phase thickness 100µm 1 pc SPME Arrow 1.5mm PDMS (Polydimethylsiloxane) , Phase thickness 250µm	X	X	
ARR1115-SEL5-S2	Collection of five different SPME Arrows with phase length of 20mm: 1 pc SPME Arrow 1.10mm Acrylate (Polyacrylate), Phase thickness 100µm 1 pc SPME Arrow 1.10mm Carbon WR/PDMS (Carbon Wide Range / Polydimethylsiloxane), Phase thickness 120µm 1 pc SPME Arrow 1.10mm DVB/PDMS (Divinylbenzene / Polydimethylsiloxan) , Phase thickness 120µm 1 pc SPME Arrow 1.10mm PDMS (Polydimethylsiloxane) , Phase thickness 100µm 1 pc SPME Arrow 1.10mm DVB/Carbon WR/PDMS (Divinylbenzene/ Carbon wide range Polydimethylsiloxane) , Phase thickness 110µm	X	X	

All PAL SPME Arrows are available as single Arrows, pack of 3 and pack of 5

PAL SPME Arrow Liner

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
ARR-Liner-CondModule	Liner for SPME Arrow Conditioning Module, Pk of 3 pcs	X	X	
ARRLIN13-GC2010-3	SPME Arrow Liner ID 1.3mm, for SSL Injector of SHIMADZU GC 2010, Pk of 3 pcs Only for SMPE Arrow OD 1.1mm	X	X	
ARRLIN13-GC6890-3	SPME Arrow Liner ID 1.3mm, for SSL Injector of AGILENT GC 6890, Pk of 3 pcs Only for SPME Arrow with OD 1.1mm	X	X	
ARRLIN13-GC7890-3	SPME Arrow Liner ID 1.3mm, for SSL Injector of AGILENT GC 7890, Pk of 3 pcs Only for SMPE Arrow with OD 1.1mm	X	X	
ARRLIN13-Trace1300-3	SPME Arrow Liner ID 1.3mm, for SSL Injector of Thermo GC Trace1300, Pk of 3 pcs Only for SPME Arrow with OD 1.1mm	X	X	
ARRLIN17-GC2010-3	SPME Arrow Liner ID 1.7mm, for SSL Injector of SHIMADZU GC 2010, Pk of 3 pcs For any SPME Arrow	X	X	
ARRLIN17-GC6890-3	SPME Arrow Liner ID 1.7mm, for SSL Injector of AGILENT GC 6890, Pk of 3 pcs For any SPME Arrow	X	X	
ARRLIN17-GC7890-3	SPME Arrow Liner ID 1.7mm, for SSL Injector of AGILENT GC 7890, Pk of 3 pcs For any SPME Arrow	X	X	
ARRLIN17-Trace1300-3	SPME Arrow Liner ID 1.7mm, for SSL Injector of Thermo GC Trace1300, Pk of 3 pcs For any SPME Arrow	X	X	
ARRLIN20-TraceUltra-3	SPME Arrow Liner ID 2.0mm, for SSL Injector of Thermo GC TraceUltra, Pk of 3 pcs For any SPME Arrow	X	X	
ARRLIN73-Trace1300-3	SPME Arrow Liner ID 1.7mm, for SSL Injector Thermo Trace 1300, pk of 3 pcs Only for SPME Arrow with OD 1.5 mm	X	X	

All PAL SPME Arrow Liners are available as single Liners, pack of 3 and pack of 5

Part No.	Description	Compatible with:		
		RTC	RSI	LSI

PAL3-Kit-ITSP	uSPE basic hardware kit for PAL RTC, consisting of:
	  1pc Needle Guide for ITSP (HW3-NG)
	  1pc Trayholder
	  1pc Waste Receptacle (HW-WR)
	  1pc Prep Tray, 96 Position polypropylene
	  1pc Single Cartridge Holder, 1 (HW-SCH)
	  4 pc sample cartridges for initial installation
	  1pc Torx T8 Screwdriver
	  1pc Jump Drive for Applications Notes, Programming & Manuals (HW-JD)
	  (requires PAL RTC System)
	  requires Firmware 2.1.0
		X		

PAL3-Kit-QuEChERS-GC	PAL3 Kit for uSPE QuEChERS, PAL RTC 1pc VT-54 Rack 1pc Vial Lock (HW-54P) 1pc 45-UMPCX-T GC QuEChERS Cartridges (96/Tray) 1pc. 2.0ml Crimp-Top Vial (clear), 100 pcs 1pc. Crimp (blue) with Starburst Septa, 100 pcs (requires PAL3-Kit-ITSP)	X		
PAL3-uSPE-30-UC18HX-T	ITSP LC QuEChERS Cartridges, 30mg 1 pc 30-UMPCG-T GC QuEChERS Cartridges (96/Tray)	X		
PAL3-uSPE-45-UMPCX-T	ITSP GC QuEChERS Cartridges, 45mg 1 pc 45-UMPCX-T GC QuEChERS Cartridges (96/Tray)	X		

Recommended Option for µSPE:

Part No.	Description	Compatible with:			
		RTC	RSI	LSI	
PAL3-WashFast	Fast Wash Module for two solvents (Needle Gauge 19 to 26), consisting of: 1 pc Wash Module with two wash positions and one Waste position 1 pc Pump Module with two solvent pumps 2 pc 1 liter solvent bottles with tubings and frits 1 pc PALbus connection cable requires firmware version 2.0.1 or higher	X	X	X	

Accessories

LC Valves:

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
PAL3-C2V-2006D-CTC-K	6-port Cheminert Injection Valve 0.40mm bore size incl. Needle Guide, Needle Seal G22, PAL3-Kit LCVlv	X	X	X
PAL3-C2V-3606D-CTC-K	6-port Cheminert Injection Valve, 0.75mm bore size incl. Needle Seal (Gauge 22) and PAL3-KitLCVlv Prep Application, Flow Rate 5 to 100mL/min	X	X	X
PAL3-C5F-1004D-CTC	Selector Valve 8-port 0.25mm, 1000psi	X	X	X
PAL3-C72VU-6676D-CTC-K	Cheminert-Valve 6-Port 0.15mm 18'500 psi inkl.Needle Guide, Needle Seal	X	X	X
PAL3-C72VX-1670D-CTC-K	Cheminert-Valve 10-Port 0.25mm 15'000 psi	X	X	X
PAL3-C72VX-1676D-CTC-K	Cheminert-Valve 6-Port 0.25mm 15'000 psi inkl. Needle Guide, Needle Seal	X	X	X
PAL3-C82VX-1676D-CTC-K	6-port Cheminert Injection Valve 15»000 psi 75°C 0.25 mm bore size	X	X	X
PAL3-ColSel6	Column Selector Valve for up to 6 columns, consists of 2 pc 6-port Cheminert valves, bore size 0.25mm	X	X	X
PAL3-ColumnHolder	Column Holder for Valve Drive with clamps for columns OD 4.6mm	X	X	X
PAL3-DCI4WK.5/1-CTC-K	Valco W-Type LC-Valve 4-Port Internal sample loop 0.5/1.0 µL 5000 psi 50°C, 0.40 mm bore size incl. Needle Guide, Needle Seal and Kit LCVlv	X	X	X
PAL3-LCInj-G22	Standard Needle Guide for Rheodyne/ Vici valves, Gauge 22	X	X	X
PAL3-LCInj-V-G19	Standard Needle Guide for Vici valves, Gauge 19	X	X	X
PAL3-LCInj20mL-G19	Needle Guide for Vici valves, Gauge 19 Designed for tools with 20mL magnet	X	X	X
PAL3-LCInj20mL-G22	Needle Guide for Rheodyne/ Vici valves, Gauge 22 Designed for tools with 20mL magnet or foil cutter	X	X	X
PAL3-PD718-110-K	6-port Rheodyne Injection Valve 0.28mm bore size and MBB functionality, stainless steel rotor seal (RPC-13 coated), Pressure up to 1200 bar, incl. Needle Guide, Needle Seal Without Sample Loop	X	X	X
PAL3-PD718-202	10-port Rheodyne Injection Valve 0.15mm bore size SPC3 coated stator and RPC-13 coated rotor seal Pressure up to 1200 bar	X	X	X

Mounting Kits:

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
PAL3-Kit-5890	Mounting Kit for Agilent GC model 5890	X	X	X
PAL3-Kit-5975T	Mounting Kit for Agilent GC model 5975T	X	X	X
PAL3-Kit-6850	Mounting Kit for Agilent GC model 6850	X	X	X
PAL3-Kit-7820-D	Mounting Kit for Agilent GC model 7820	X	X	X
PAL3-Kit-7890-D	Mounting Kit for Agilent GC models 6890 / 7890	X	X	X
PAL3-Kit-7890-S	Mounting Kit for Agilent GC models 6890 / 7890 (side mounting)	X	X	X
PAL3-Kit-Bruker-436	Mounting Kit for Bruker GC model 436 (compatible with Varian GC V3900)	X	X	X
PAL3-Kit-Bruker-451	Mounting Kit for Bruker GC model 451	X	X	X
PAL3-Kit-Bruker-456	Mounting Kit for Bruker GC model 456	X	X	X
PAL3-Kit-Focus	Mounting kit for Thermo Focus GC	X	X	X
PAL3-Kit-MasterGC	Mounting Kit for DANI Master GC	X	X	X
PAL3-Kit-PEC500	Mounting Kit for PERKIN ELMER Clarus 500	X	X	X
PAL3-Kit-PEC600	Mounting Kit for PERKIN ELMER Clarus 600 / Clarus 680-iQT	X	X	X
PAL3-Kit-S17A	Mounting Kit for Shimadzu GC-S17A model	X	X	X
PAL3-Kit-S2010	Mounting Kit for Shimadzu GC-2010 model	X	X	X

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
PAL3-Kit-S2014	Mounting Kit for Shimadzu GC-2014 model	X	X	X
PAL3-Kit-S2025	Mounting Kit for Shimadzu GC-2025 model	X	X	X
PAL3-Kit-S2030	Mounting Kit for Shimadzu GC-2030 model	X	X	X
PAL3-Kit-Standalone	Standard Support PAL3, 215mm, incl. PAL Interface Cable, 2pcs	X	X	X
PAL3-Kit-Trace	Mounting Kit for Thermo Trace GC Ultra	X	X	X
PAL3-Kit-Trace1300	Mounting Kit for Thermo Trace 1300/1310 GC	X	X	X
PAL3-Kit-Varian-3800	Mounting Kit for Varian GC model 3800	X	X	X

Other Accessories

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
PAL3-Agi-InsSet-10ml	Set of 6x inserts for the Agitator to place 10mL vials instead of 20mL vials	X	X	X
PAL3-Agi-InsSet-2ml	Set of 6x inserts for the Agitator to place 2mL vials instead of 20mL vials	X	X	X
PAL3-DilAspKit	Aspiration Tubing Kit, consisting of: 1 pc Tube PFA 1 pc 28mm VitraPOR Glass Frit 40um pore size 1 pc Plug with Feed-through Holes	X	X	
PAL3-FoilCutter	Foil cutter to pierce either aluminum or plastic foils prior to the needle penetration into Microtiter or Deep Well plates (Requires PAL3-LCInj-V-G19 or PAL3-LCInj-G22)	X	X	

Consumables – Vials, Vial Caps, Seals

Vials

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
Vial-0.3-ND9-PP-100	PAL System Micro-Vial 2CV, 0.3mL Clear PP, designed for the PAL Autosampler. 12x32mm, with conical insert, fits ND9 Screw Caps, Pk of 100 Pcs	X	X	X
Vial-1.5-ND9-AG-100	PAL System Vial 2CV, 1.5ml Amber Glass with Label, designed for the PAL Autosampler. 12x32mm, 1st Class Hydrolytic Glass, fits ND9 Screw Caps, Pk of 100 Pcs	X	X	X
Vial-1.5-ND9-CG-100	PAL System Vial 2CV, 1.5ml Clear Glass with Label, designed for the PAL Autosampler. 12x32mm, 1st Class Hydrolytic Glass, fits ND9 Screw Caps, Pk of 100 Pcs	X	X	X
Vial-1.5-ND9-PP-100	PAL System Vial 2CV, 1.5mL Clear PP, designed for the PAL Autosampler. 12x32mm, with filling lines, fits ND9 Screw Caps, Pk of 100 Pcs	X	X	X
Vial-10-DC20-CG-100	PAL System Vial 10CV, 10ml Clear Glass with Label, for PAL Wash Modules. 46x22.5mm, 1st Class Hydrolytic Glass, DIN-Crimp Neck, Pk of 100pcs	X	X	X
Vial-10-ND18-AG-100	PAL System Vial 10CV, 10ml Amber Glass with Label, designed for the PAL Autosampler. 46x22.5mm, 1st Class Hydrolytic Glass, with flat finish for better sealing, fits ND18 Screw Caps, Pk of 100 Pcs	X	X	X
Vial-10-ND18-CG-100	PAL System Vial 10CV, 10ml Clear Glass with Label, designed for the PAL Autosampler. 46x22.5mm, 1st Class Hydrolytic Glass, with flat finish for better sealing, fits ND18 Screw Caps, Pk of 100 Pcs	X	X	X
Vial-20-ND18-AG-100	PAL System Vial 20CV, 20ml Amber Glass with Label, designed for the PAL Autosampler. 75.5x22.5mm, 1st Class Hydrolytic Glass with flat finish for better sealing, fits ND18 Screw Caps, Pk of 100 Pcs	X	X	X
Vial-20-ND18-CG-100	PAL System Vial 20CV, 20ml Clear Glass with Label, designed for the PAL Autosampler. 75.5x22.5mm, 1st Class Hydrolytic Glass with flat finish for better sealing, fits ND18 Screw Caps, Pk of 100 Pcs	X	X	X

Vial Caps

Part No.	Description	RTC	RSI	LSI
Cap-DC20-PE-SP13Y-100	PAL System Clip Cap for PAL Wash Modules. 22mm PE, Silicone/PTFE/Y-Slitted Septa 1.3mm, Pk of 100 pcs	X	X	X
Cap-ND18-St-SP15-100	PAL System Screw Cap 10CV and 20CV, designed for the PAL Autosampler. ND18 Magnetic, Silver, Silicone white/PTFE blue Septa 1.5mm, Pk of 100 pcs	X	X	X
Cap-ND18-StC-SP20-100	PAL System Screw Re-Cap 10CV and 20CV, designed for the PAL Autosampler. ND18 Magnetic, PTFE Metal Coating for optimized screw and sealing performance, Silicone/PTFE Septa 2.0mm, Pk of 100 pcs	X	X	X
Cap-ND9-St-SP10-100	PAL System Screw Cap 2CV, designed for the PAL Autosampler. ND9, Magnetic, Gold, Silicone/PTFE Septa 1.0mm, Pk of 100 pcs	X	X	X
Cap-ND9-St-SP10S-100	PAL System Screw Cap 2CV, designed for the PAL Autosampler. ND9, Magnetic, Gold, Silicone/PTFE/I-Slitted Septa 1.0mm, Pk of 100 pcs	X	X	X

Vial and Cap Kit

Part No.	Description	RTC	RSI	LSI
PAL3-Kit-WashVial-Caps	Snap cap (PE) and septum (Silicon/PTFE) for 10mL/100mL vials for Standard Wash Module (set of 10)	X	X	X
PAL3-Kit-WashVial-10ml	10mL solvent vial for Standard Wash Module completed with snap caps and seals (set of 10)	X	X	X

Needle Seal

Part No.	Description	RTC	RSI	LSI
PAL3-NdlSeal	PALseal gauge 22 for Valco and Rheodyne valves (use together with Needle Guide NV-30-25) Pack of 5 pcs	X	X	X

Spare Parts A-Z

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
PAL3-Adap-7890/6890	Adapter for Agilent GC 7890/6890	X	X	X
PAL3-Adap-GC2010	Adapter for Shimadzu GC2010 Plus	X	X	X
PAL3-Adap-Trace1300-GC	Adapter for Thermo Trace 1300 GC injectors, suitable for SSL or PTV injector	X	X	X
PAL3-Adap-TraceUltra	Adapter for Thermo Trace 1300 Ultra injector	X	X	X
PAL3-AdapStdWash-2ml	Adapter for Standard Wash Station to place 2mL vial instead of the 10mL wash vial	X	X	X
PAL3-AdapStdWash-Waste	Waste Adapter for Standard Wash Module	X	X	X
PAL3-Adapters-TraceGC	Kit of adapters for Thermo Trace GC Ultra injectors: consists of one adapter for SSL/packed/purge packed injector and one adapter for PTV	X	X	X
PAL3-Adapters-FocusGC	Adapter kit for Thermo Focus GC injectors: consists of one adapter for SSL/packed/purge packed injector	X	X	X
PAL3-Agi-TeachAdap	Agitator Teaching Tool, 2pcs	X	X	X
PAL3-HS1000-Oring-kit	Spare for Headspace Tool, consisting of: 4pc O-ring 7x1.5 MVQ for syringe fixation 2pc O-ring 3x1.0 MVQ for gas connection 1pc syringe removing tool 1pc syringe O-ring removing tool	X	X	
PAL3-HS2500-Oring-kit	Spare for Headspace Tool, consisting of: 4pc O-ring 9.25x1.78 MVQ for syringe fixation 2pc O-ring 3x1.0 MVQ for gas connection 1pc syringe removing tool 1pc syringe O-ring removing tool	X	X	
PAL3-HS5000-Oring-kit	Spare for Headspace Tool, consisting of: 4pc O-ring 13x1.5 MVQ for syringe fixation 2pc O-ring 3x1.0 MVQ for gas connection 1pc syringe removing tool 1pc syringe O-ring removing tool	X	X	
PAL3-KIT-LCVlv	Kit Waste-Tubing for VICI and Rheodyne Valves	X	X	X
PAL3-LCMSLoop	Kit PAL3 LCMS Holding Loop with Fittings	X	X	
PAL3-LCMSPLG	Replacement plunger for LCMS syringe PAL3-SYH-207128 Package of 10 pcs	X	X	
PAL3-LSI-PM-Kit	Preventive Maintenance Kit for PAL LSI, consisting of: 1pc Vial Teaching Kit 1pc Test Label Barcode 1pc Lubricant 1pc Brush 3pc Spare Screw for fixation of PALhead 1pc Spare Screw for fixation of Cover 1pc Kit Wash Vials Soft Tissue for outer surface cleaning Rough Tissue for degreasing X-,Y-,Z-Axes or Guide Rollers			X
PAL3-LubKit	PAL Lubrication Kit including brush	X	X	X

Part No.	Description	Compatible with:		
		RTC	RSI	LSI
PAL3-PM-GC-KIT	Preventive Maintenance Kit for PALSystem GC configuration, consisting of: 1pc Vial Teaching Kit 2pc Driving Belt Agitator 1pc Test Label Barcode 1pc Lubricant 1pc Brush 1pc Spare Screw for fixation of PALhead cover 1pc Spare Screw for fixation of PALhead with O-Ring 1pc Kit Wash Vials Soft Tissue for outer surface cleaning Rough Tissue for degreasing X-,Y-,Z-Axes or Guide Rollers	X	X	
PAL3-PM-LC-KIT	Preventive Maintenance Kit for PALSystem LC configuration, consisting of: 1pc Vial Teaching Kit 1pc Test Label Barcode 1pc Lubricant 1pc Brush 5pc PALseal 1pc Spare Screw for fixation of PALhead cover 1pc Spare Screw for fixation of PALhead with O-Ring 1pc Kit Waste-Tubing for VICI and Rheodyne Valves Soft Tissue for outer surface cleaning Rough Tissue for degreasing X-,Y-,Z-Axes or Guide Rollers	X	X	
PAL3-POWERSUPPLY	Main Power supply for PALSystem. Input Voltage 100-240V	X	X	X
PAL3-TubeDilutor	Transfer tubing kit for Dilutor	X	X	
PAL3-TubeFastWash	Tubing Kit for Fast Wash Module	X	X	X
PAL3-WashVial-100ml	100mL solvent vial for Large Wash Module or Solvent Module completed with snap cap (PE) and septum (Silicon/PTFE, one piece)	X	X	X

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