

Liquid Smart Syringes - Fixed Needle

Part No.	Description	Tool compatibility
SF0-57-B-26P-CO	0.5µL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, gauge 26P, scale length 27mm, Point Style conical	D7/57
SF1-57-B-26P-CO	1.2µL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, gauge 26P, scale length 36mm, Point Style conical	D7/57
SF1-85-B-26P-CO	1.2µL Smart Syringe with fixed needle for Tool D7/85: Needle length 85mm, gauge 26P, scale length 36mm, Point Style conical	D7/85
SF10-57-M-23S-CO	10uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, metal plunger, gauge 23S, scale length 54mm, Point Style conical	D7/57
SF10-57-M-26S-CO	10uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, metal plunger, gauge 26S, scale length 54mm, Point Style conical	D7/57
SF10-57-T-22S-FL	10uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 22S, scale length 60mm, Point Style flat	D7/57
SF10-57-T-23S-CO	10uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 23S, scale length 60mm, Point Style conical	D7/57
SF10-57-T-26S-CO	10uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical	D7/57
SF10-85-M-26S-CO	10uL Smart Syringe with fixed needle for Tool D7/85: Needle length 85mm, metal plunger, gauge 26S, scale length 54mm, Point Style conical	D7/85
SF10-85-T-26S-CO	10uL Smart Syringe with fixed needle for Tool D7/85: Needle length 85mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical	D7/85
SF10-85-M-23S-CO	10uL Smart Syringe with fixed needle for Tool D7/85: Needle length 85mm, metal plunger, gauge 23S, scale length 54mm, needle tip conical	D7/85
SF25-57-T-26S-CO	25uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical	D7/57
SF25-85-T-26S-CO	25uL Smart Syringe with fixed needle for Tool D7/85: Needle length 85mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical	D7/85
SFX25-57-T-22S-FL	25uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 22S, scale length 60mm, Point Style flat, x-Type	D7/57
SF50-57-T-26S-CO	50uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical	D7/57
SF50-85-T-26S-CO	50uL Smart Syringe with fixed needle for Tool D7/85: Needle length 85mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical	D7/85
SF100-57-T-26S-CO	100uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical	D7/57
SF100-57-T-23S-CO	100uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 23S, scale length 60mm, Point Style conical	D7/57
SF100-85-T-26S-CO	100uL Smart Syringe with fixed needle for Tool D7/85: Needle length 85mm, PTFE plunger, gauge 26S, scale length 60mm, Point Style conical	D7/85
SFX100-57-T-22-FL	100uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 22, scale length 60mm, Point Style flat, x-Type	D7/57
SFX100-57-T-22S-FL	100uL Smart Syringe with fixed needle for Tool D7/57: Needle length 57mm, PTFE plunger, gauge 22S, scale length 60mm, Point Style flat, x-Type	D8/57
SF250-57-T-26-CO	250uL Smart Syringe with fixed needle for Tool D8/57: Needle length 57mm, PTFE plunger, gauge 26, scale length 60mm, Point Style conical	D8/57
SF250-85-T-26-CO	250uL Smart Syringe with fixed needle for Tool D8/85: Needle length 85mm, PTFE plunger, gauge 26, scale length 60mm, Point Style conical	D8/85
SF250-57-T-22-FL	250uL Smart Syringe with fixed needle for Tool D8/57: Needle length 57mm, PTFE plunger, gauge 22, scale length 60mm, Point Style flat	D8/57
SF500-57-T-22-FL	500uL Smart Syringe with fixed needle for Tool D8/57: Needle length 57mm, PTFE plunger, gauge 22, scale length 60mm, Point Style flat	D8/57

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

Liquid Smart Syringes - Fixed Needle

Part No.	Description	Tool compatibility
SF500-57-T-26-CO	500uL Smart Syringe with fixed needle for Tool D8/57: Needle length 57mm, PTFE plunger, gauge 26, scale length 60mm, Point Style conical	D8/57
SF1000-57-T-22-FL	1000uL Smart Syringe with fixed needle for Tool D8/57: Needle length 57mm, PTFE plunger, gauge 22, scale length 60mm, Point Style flat	D8/57
SF1000-57-T-23-CO	1000uL Smart Syringe with fixed needle for Tool D8/57: Needle length 57mm, PTFE plunger, gauge 23, scale length 60mm, Point Style conical	D8/57
SC2500-57-PE-22-FL	2500uL Smart Syringe with fixed needle for Tool D18/57: Needle length 57mm, Polyethylene plunger, gauge 22, scale length 60mm, Point Style flat	D18/57
SC2500-57-T-19-FL	2500uL Smart Syringe with fixed needle for Tool D18/57: Needle length 57mm, PTFE plunger, gauge 19, scale length 60mm, Point Style flat	D18/57
SC2500-57-T-22-FL	2500uL Smart Syringe with fixed needle for Tool D18/57: Needle length 57mm, PTFE plunger, gauge 22, scale length 60mm, Point Style flat	D18/57
SC5000-57-T-19-FL	5000uL Smart Syringe with fixed needle for Tool D18/57: Needle length 57mm, PTFE plunger, gauge 19, scale length 60mm, Point Style flat	D18/57
SC5000-57-T-22-FL	5000uL Smart Syringe with fixed needle for Tool D18/57: Needle length 57mm, PTFE plunger, gauge 22, scale length 60mm, Point Style flat	D18/57

LCMS Smart Syringes - without Needle

Part No.	Description	Tool compatibility
SLCMS-100-PE	100µl Smart LCMS Syringe for LCMS Tool, PE Plunger, Gastight, Scale Length 60 mm, Thread 1/4-28 UNF	LCMS
	Removable Needle not included	
SLCMS-100-T	100µl Smart LCMS Syringe for LCMS Tool, PTFE Plunger, Gastight, Scale Length 60 mm, Thread 1/4-28 UNF Removable Needle not included	LCMS
SLCMS-250-PE	250µl Smart LCMS Syringe for LCMS Tool, PE Plunger, Gastight, Scale Length 60 mm, Thread 1/4-28 UNF Removable Needle not included	LCMS
SLCMS-250-T	250µl Smart LCMS Syringe for LCMS Tool, PTFE Plunger, Gastight, Scale Length 60 mm, Thread 1/4-28 UNF	LCMS
	Removable Needle not included	

ITEX Smart Syringes - without Needle

Part No.	Description	Tool compatibility
SITEX1300-T	Smart ITEX Syringe 1300µl for Tool ITEX, ITEX Trap not included.	ITEX

Liquid Smart Syringes - Exchangeable Needle

Part No.	Description	Tool compatibility
SE0-B-57-23P-CO	0.5µL Smart Syringe body for exchangeable needles for Tool D8/57, Plunger in Needle, Needle length 57mm, gauge 23P, scale length 27mm, Point Style conical, Needle Flange Type NIP_0	D8/57
SE1-B-57-23P-CO	1μL Smart Syringe body for exchangeable needles for Tool D8/57, Plunger in Needle, Needle length 57mm, gauge 23P, scale length 27mm, Point Style conical, Needle Flange Type NIP_1	D8/57

Liquid Smart Syringes - Exchangeable Needle

Part No.	Description	Tool compatibility
SE5-M	5μL Smart Syringe body for exchangeable needles for Tool D8, Metal Plunger, Needle Flange Type F_5, Needle not included	D8/57
SE10-M	10µL Smart Syringe body for exchangeable needles for Tool D8, Metal Plunger, Needle Flange Type F_10, Needle not included	D8/57
SE10-T	10µL Smart Syringe body for exchangeable needles for Tool D8, PTFE Plunger, Needle Flange Type F_10, Needle not included	D8/57
SE25-T	25μL Smart Syringe body for exchangeable needles for Tool D8, PTFE Plunger, Needle Flange Type F_25, Needle not included	D8/57
SE50-T	50µL Smart Syringe body for exchangeable needles for Tool D8, PTFE Plunger, Needle Flange Type F_25, Needle not included	D8/57
SE100-T	100µL Smart Syringe body for exchangeable needles for Tool D8, PTFE Plunger, Needle Flange Type F_25, Needle not included	D8/57
SE250-T	250µL Smart Syringe body for exchangeable needles for Tool D8, PTFE Plunger, Needle Flange Type F_25, Needle not included	D8/57
SE500-T	500µL Smart Syringe body for exchangeable needles for Tool D8, PTFE Plunger, Needle Flange Type F_25, Needle not included	D8/57
SE1000-T	1000μL Smart Syringe body for exchangeable needles for Tool D8, PTFE Plunger, Needle Flange Type F_1000, Needle not included	D8/57
SCE2500-T	2500µL Smart Syringe body for exchangeable needles for Tool D18, PTFE Plunger, Needle Flange Type F_1000, Needle not included	D18/57
SCE5000-T	5000µL Smart Syringe body for exchangeable needles for Tool D18, PTFE Plunger, Needle Flange Type F_1000, Needle not included	D18/57
SE10000-T	10000µL Smart Syringe body for exchangeable needles for Tool D18, PTFE Plunger, Needle Flange Type F_10000, Needle not included	D18/57

Headspace Smart Syringes - Fixed Needle - Needle Fixation with Glue

Part No.	Description	Tool compatibility
SH1000-65-T-23-SP	1000µL Smart Headspace Syringe with fixed needle for Tool HS1000, PTFE Plunger, Needle length 65mm, Gauge 23, Point Style Sideport	HS1000
SH2500-65-T-23-SP	2500µL Smart Headspace Syringe with fixed needle for Tool HS2500, PTFE Plunger, Needle length65mm, Gauge 23, Point Style Sideport	HS2500
SH5000-65-T-23-SP	5000µL Smart Headspace Syringe with fixed needle for Tool HS5000, PTFE Plunger, Needle length 65mm, Gauge 23, Point Style Sideport	HS5000

Headspace Smart Syringes - Fixed Needle - Glue Free Needle Fixation

Part No.	Description	Tool compatibility
SHGF2250-T-23-SP	2250µl Smart Glue Free Headspace Syringe with fixed needle for Tool HS2500, PTFE plunger, needle gauge 23, Point Style Sideport	HS2500
SHGF4500-T-23-SP	4500µl Smart Glue Free Headspace Syringe with fixed needle for Tool HS5000, PTFE plunger, needle gauge 23, Point Style Sideport	HS5000

Headspace Smart Syringes - Exchangeable Needle

Part No.	Description	Tool compatibility
SHE1000-T	1000µL Smart Headspace Syringe for exchangeable needles for Tool HS1000, PTFE Plunger, Needle Flange Type HS_1000 - Needle not included!	HS1000
SHE2500-T	2500μL Smart Headspace Syringe for exchangeable needles for Tool HS2500, PTFE Plunger, Needle Flange Type HS_1000 - Needle not included!	HS2500
SHE5000-T	5000µL Smart Headspace Syringe for exchangeable needles for Tool HS5000, PTFE Plunger, Needle Flange Type HS_1000 - Needle not included!	HS5000

Liquid Smart Syringe Needles - Needle Flange Type F_5

Part No.	Description	Syringe compatibility
ND5-57-23S-CO	Exchangeable needle for liquid syringes with Needle Flange type ND5 Body Type 5µL Liquid Syringe, Needle Length 57mm, Gauge 23S, Point Style conical	SE5-M
ND5-57-26S-CO	Exchangeable needle for liquid syringes with Needle Flange type ND5 Body Type 5µL Liquid Syringe, Needle Length 57mm, Gauge 26S, Point Style conical	SE5-M
ND5-85-23S-CO	Exchangeable needle for liquid syringes with Needle Flange type ND5 Body Type 5µL Liquid Syringe, Needle Length 85mm, Gauge 23S, Point Style conical	SE5-M
ND5-85-26S-CO	Exchangeable needle for liquid syringes with Needle Flange type ND5 Body Type 5µL Liquid Syringe, Needle Length 85mm, Gauge 26S, Point Style conical	SE5-M

Liquid Smart Syringe Needles - Needle Flange Type F_10

Part No.	Description	Syringe compatibility
ND10-57-23S-CO	Exchangeable needle for liquid syringes with Needle Flange type ND10 Body Type 10µL Liquid Syringe, Needle Length 57mm, Gauge 23S, Point Style conical	SE10-M, SE10-T
ND10-57-26S-CO	Exchangeable needle for liquid syringes with Needle Flange type ND10 Body Type 10µL Liquid Syringe, Needle Length 57mm, Gauge 26S, Point Style conical	SE10-M, SE10-T
ND10-85-23S-CO	Exchangeable needle for liquid syringes with Needle Flange type ND10 Body Type 10µL Liquid Syringe, Needle Length 85mm, Gauge 23S, Point Style conical	SE10-M, SE10-T
ND10-85-26S-CO	Exchangeable needle for liquid syringes with Needle Flange type ND10 Body Type 10µL Liquid Syringe, Needle Length 85mm, Gauge 26S, Point Style conical	SE10-M, SE10-T

Liquid Smart Syringe Needles - Needle Flange Type F_25

Part No.	Description	Syringe compatibility
ND25-57-22S-FL	Exchangeable needle for liquid syringes with Needle Flange type ND25 Body Type 25, 50, 100, 250 or 500µL Liquid Syringe, Needle Length 57mm, Gauge 22S, Point Style flat	SE25-T, SE50-T, SE100-T. SE250-T, SE500-T
ND25-57-23-CO	Exchangeable needle for liquid syringes with Needle Flange type ND25 Body Type 25, 50, 100, 250 or 500µL Liquid Syringe, Needle Length 57mm, Gauge 23, Point Style conical	SE25-T, SE50-T, SE100-T. SE250-T, SE500-T
ND25-57-23S-CO	Exchangeable needle for liquid syringes with Needle Flange type ND25 Body Type 25, 50, 100, 250 or 500µL Liquid Syringe, Needle Length 57mm, Gauge 23S, Point Style conical	SE25-T, SE50-T, SE100-T. SE250-T, SE500-T
ND25-57-26-CO	Exchangeable needle for liquid syringes with Needle Flange type ND25 Body Type 25, 50, 100, 250 or 500µL Liquid Syringe, Needle Length 57mm, Gauge 26, Point Style conical	SE25-T, SE50-T, SE100-T. SE250-T, SE500-T
ND25-57-26S-CO	Exchangeable needle for liquid syringes with Needle Flange type ND25 Body Type 25, 50, 100, 250 or 500µL Liquid Syringe, Needle Length 57mm, Gauge 26S, Point Style conical	SE25-T, SE50-T, SE100-T. SE250-T, SE500-T
ND25-85-22-FL	Exchangeable needle for liquid syringes with Needle Flange type ND25 Body Type 25, 50, 100, 250 or 500µL Liquid Syringe, Needle Length 85mm, Gauge 22, Point Style flat	SE25-T, SE50-T, SE100-T. SE250-T, SE500-T
ND25-85-22S-FL	Exchangeable needle for liquid syringes with Needle Flange type ND25 Body Type 25, 50, 100, 250 or 500µL Liquid Syringe, Needle Length 85mm, Gauge 22S, Point Style flat	SE25-T, SE50-T, SE100-T. SE250-T, SE500-T

Liquid Smart Syringe Needles - Needle Flange Type F_25

Part No.	Description	Syringe compatibility
ND25-85-23-CO	Exchangeable needle for liquid syringes with Needle Flange type ND25 Body Type 25, 50, 100, 250 or 500µL Liquid Syringe, Needle Length 85mm, Gauge 23, Point Style conical	SE25-T, SE50-T, SE100-T. SE250-T, SE500-T
ND25-85-23S-CO	Exchangeable needle for liquid syringes with Needle Flange type ND25 Body Type 25, 50, 100, 250 or 500µL Liquid Syringe, Needle Length 85mm, Gauge 23S, Point Style conical	SE25-T, SE50-T, SE100-T. SE250-T, SE500-T
ND25-85-26-CO	Exchangeable needle for liquid syringes with Needle Flange type ND25 Body Type 25, 50, 100, 250 or 500µL Liquid Syringe, Needle Length 85mm, Gauge 26, Point Style conical	SE25-T, SE50-T, SE100-T. SE250-T, SE500-T
ND25-85-26S-CO	Exchangeable needle for liquid syringes with Needle Flange type ND25 Body Type 25, 50, 100, 250 or 500µL Liquid Syringe, Needle Length 85mm, Gauge 26S, Point Style conical	SE25-T, SE50-T, SE100-T. SE250-T, SE500-T

Liquid Smart Syringe Needles - Needle Flange Type F_1000

Part No.	Description	Syringe compatibility
ND1000-57-22-FL	Exchangeable needle for liquid syringes with Needle Flange type ND1000 Body Type 1000, 2500 or 5000µL Liquid Syringe, Needle Length 57mm, Gauge 22, Point Style flat. Caution: not for Headspace syringes	SE1000-T, SCE2500-T, SCE5000-T
ND1000-57-22-SP	Exchangeable needle for liquid syringes with Needle Flange type ND1000 Body Type 1000, 2500 or 5000µL Liquid Syringe, Needle Length 57mm, Gauge 22, Point Style side port - Caution: not for Headspace syringes	SE1000-T, SCE2500-T, SCE5000-T
ND1000-57-23-CO	Exchangeable needle for liquid syringes with Needle Flange type ND1000 Body Type 1000, 2500 or 5000µL Liquid Syringe, Needle Length 57mm, Gauge 23, Point Style conical - Caution: not for Headspace syringes	SE1000-T, SCE2500-T, SCE5000-T
ND1000-57-23-SP	Exchangeable needle for liquid syringes with Needle Flange type F_1000 Body Type 1000, 2500 or 5000µL Liquid Syringe, Needle Length 57mm, Gauge 23, Point Style side port. Caution: not for Headspace syringes	SE1000-T, SCE2500-T, SCE5000-T
ND1000-57-26-CO	Exchangeable needle for liquid syringes with Needle Flange type ND1000 Body Type 1000, 2500 or 5000µL Liquid Syringe, Needle Length 57mm, Gauge 26, Point Style conical. Caution: not for Headspace syringes	SE1000-T, SCE2500-T, SCE5000-T
ND1000-85-19-SP	Exchangeable needle for liquid syringes with Needle Flange type ND 1000 Body Type 1000, 2500 or 5000µL Liquid Syringe, Needle Length 85mm, Gauge 19, Point Style side port. Caution: not for Headspace syringes	SE1000-T, SCE2500-T, SCE5000-T
ND1000-85-22-FL	Exchangeable needle for liquid syringes with Needle Flange type ND 1000 Body Type 1000, 2500 or 5000µL Liquid Syringe, Needle Length 85mm, Gauge 22, Point Style flat. Caution: not for Headspace syringess	SE1000-T, SCE2500-T, SCE5000-T
ND1000-85-22-SP	Exchangeable needle for liquid syringes with Needle Flange type ND1000 Body Type 1000, 2500 or 5000µL Liquid Syringe, Needle Length 85mm, Gauge 22, Point Style side port. Caution: not for Headspace syringes	SE1000-T, SCE2500-T, SCE5000-T
ND1000-85-23-CO	Exchangeable needle for liquid syringes with Needle Flange type ND1000 Body Type 1000, 2500 or 5000µL Liquid Syringe, Needle Length 85mm, Gauge 23, Point Style conical - Caution: not for Headspace syringes	SE1000-T, SCE2500-T, SCE5000-T
ND1000-85-23-SP	Exchangeable needle for liquid syringes with Needle Flange type ND1000 Body Type 1000, 2500 or 5000µL Liquid Syringe, Needle Length 85mm, Gauge 23, Point Style side port. Caution: not for Headspace syringes	SE1000-T, SCE2500-T, SCE5000-T
ND1000-85-26-CO	Exchangeable needle for liquid syringes with Needle Flange type ND1000 Body Type 1000, 2500 or 5000µL Liquid Syringe, Needle Length 85mm, Gauge 26, Point Style conical - Caution: not for Headspace syringes	SE1000-T, SCE2500-T, SCE5000-T

Liquid Smart Syringe Needles - Needle Flange Type F_10000

Part No.	Description	Syringe compatibility
ND10000-57-19-SP	Exchangeable needle for liquid syringes with Needle Flange type ND10000 Body Type 10000µL Liquid Syringe, Needle Length 57mm, Gauge 19, Point Style side port	SE10000-T
ND10000-57-22-FL	Exchangeable needle for liquid syringes with Needle Flange type ND10000 Body Type 10000µL Liquid Syringe, Needle Length 57mm, Gauge 22, Point Style flat	SE10000-T
ND10000-57-22-SP	Exchangeable needle for liquid syringes with Needle Flange type ND10000 Body Type 10000µL Liquid Syringe, Needle Length 57mm, Gauge 22, Point Style side port	SE10000-T
ND10000-57-23-CO	Exchangeable needle for liquid syringes with Needle Flange type ND10000 Body Type 10000µL Liquid Syringe, Needle Length 57mm, Gauge 23, Point Style conical	SE10000-T
ND10000-57-23-SP	Exchangeable needle for liquid syringes with Needle Flange type ND10000 Body Type 10000µL Liquid Syringe, Needle Length 57mm, Gauge 23, Point Style side port	SE10000-T

Headspace Smart Syringe Needles - Needle Flange Type HS_1000

Part No.	Description	Syringe compatibility
NDH1000-65-22-SP	Exchangeable needle for liquid syringes with Needle Flange type ND1000 Body Type 1000, 2500 or 5000µL Headspace Syringe, Needle Length 65mm, Gauge 22, Point Style side port	SHE1000-T, SHE2500-T, SHE5000-T
NDH1000-65-23-CO	Exchangeable needle for liquid syringes with Needle Flange type ND1000 Body Type 1000, 2500 or 5000µL Headspace Syringe, Needle Length 65mm, Gauge 23, Point Style conical	SHE1000-T, SHE2500-T, SHE5000-T
NDH1000-65-23-SP	Exchangeable needle for liquid syringes with Needle Flange type ND1000 Body Type 1000, 2500 or 5000µL Headspace Syringe, Needle Length 65mm, Gauge 23, Point Style side port	SHE1000-T, SHE2500-T, SHE5000-T
NDH1000-65-26-CO	Exchangeable needle for liquid syringes with Needle Flange type ND1000 Body Type 1000, 2500 or 5000µL Headspace Syringe, Needle Length 65mm, Gauge 26, Point Style conical	SHE1000-T, SHE2500-T, SHE5000-T



Smart SPME Arrow / Smart SPME Fiber

PAL SPME Kit

Part No.	Description	Compatil	ble with:
		RTC	RSI
PAL3-SPME-SFib-Kit	SPME Kit, consisting of: 1 pc SPME Tool 1 pc SPME Fiber Assortment Kit (SFIB-SEL5-S2) 1 pc SPME Performance Evaluation Mix	X	X

PAL SPME Fibers

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

All PAL Smart SPME Fibers are available as single fiber, pack of 3 fibers and pack of 5 fibers

PAL SPME Arrows

Part No.	Description	Tool compatibility
SARR11-A-100/20-P3	Smart SPME Arrow 1.10mm: Acrylate (Polyacrylate) Phase thickness 100µm, Phase length 20mm, color code: grey, pack of 3 pcs	SPME Arrow
SARR11-C-WR-120/20-P3	Smart SPME Arrow 1.10mm: C-WR/PDMS (Carbon Wide Range) Phase thickness 120µm, Phase length 20mm, color code: light blue, pack of 3 pcs	SPME Arrow
SARR11-DVB-120/20-P3	Smart SPME Arrow 1.10mm: DVB/PDMS (Divinylbenzene) Phase thickness 120µm, Phase length 20mm, color code: violett, pack of 3 pcs	SPME Arrow
SARR11-DVB/CWR120/20-P3	Smart SPME Arrow 1.10mm: DVB/C-WR/PDMS (Divinylbenzene / Carbon Wide Range / Polydimethylsiloxane), Phase thickness 110µm, Phase length 20mm, color code: dark gray, pack of 3 pc	SPME Arrow
SARR11-P-100/20-P3	Smart SPME Arrow 1.10mm: PDMS (Polydimethylsiloxane) Phase thickness 100μm, Phase length 20mm, color code: red, pack of 3 pcs	SPME Arrow
SARR15-C-WR-120/20-P3	Smart SPME Arrow 1.50mm wide sleeve: C-WR/PDMS (Carbon Wide Range / Polydimethylsiloxane) Phase thickness 120µm, Phase length 20mm, color code: light blue, pack of 3 pcs	SPME Arrow
SARR15-DVB-120/20-P3	Smart SPME Arrow 1.50mm wide sleeve: DVB/PDMS (Divinylbenzene / Polydimethylsiloxane) Phase thickness 120µm, Phase length 20mm, color code: violett, pack of 3 pcs	SPME Arrow
SARR15-DVB/CWR120/20-P3	Smart SPME Arrow 1.50mm wide sleeve: DVB/C-WR/PDMS (Divinylbenzene/Carbon Wide Range/Polydimethylsiloxane) Phase thickness 110µm, Phase length 20mm, color code: dark gray, pack of 3 pc	SPME Arrow
SARR15-P-100/20-P3	Smart SPME Arrow 1.50mm wide sleeve: PDMS (Polydimethylsiloxane) Phase thickness 100µm, Phase length 20mm, color code: red, pack of 3 pcs	SPME Arrow
SARR15-P-250/20-P3	Smart SPME Arrow 1.50mm: PDMS (Polydimethylsiloxane) Phase thickness 250µm, Phase length 20mm, color code: black, pack of 3 pc	SPME Arrow
SARR1115-SEL5-S2	Collection of five different Smart SPME Arrows with phase length of 20mm: 1 pc Smart SPME Arrow 1.10mm Acrylate (Polyacrylate), Phase thickness 100µm 1 pc Smart SPME Arrow 1.10mm C-WR/PDMS (Carbon Wide Range / Polydimethylsiloxane), Phase thickness 120µm 1 pc Smart SPME Arrow 1.10mm DVB/PDMS (Divinylbenzene / Polydimethylsiloxan), Phase thickness 120µm 1 pc Smart SPME Arrow 1.10mm PDMS (Polydimethylsiloxane), Phase thickness 100µm 1 pc Smart SPME Arrow 1.10mm DVB/Carbon WR/PDMS (Divinylbenzene / Carbon wide range / Polydimethylsiloxane), Phase thickness 110µm	SPME Arrow

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

PAL SPME Arrow Accessories

Part No.	Description	Com	patible	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	Х	Χ	
PAL3-Heatex-Ins-2mL	Specific insert for the Heatex Stirrer to stir one 2mL vial	Х	Χ	
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-SARR-Start-6890-LCh	Starter Kit Smart SPME Arrow for Agilent GC 6890 with large charcoal filter consisting of: 1 Adaptation for the split/splitless injector with large charcoal filter of AGILENT GC 6890 (ARR-SSL-Inj-GC6890-LCh) 2 SPME Arrow Liner for SSL Injector of Agilent GC 6890 1x PAL Smart SPME Arrow Kit (PAL3-SPME-SArr-Kit) 1 pc SPME Arrow Tool 1 pc Smart SPME Arrow Assortment Kit (SARR1115-SEL5-S2) 1 pc SPME Performance Evaluation Mix	X	Х	
PAL3-SARR-Start-6890-STD	Starter Kit Smart SPME Arrow for Agilent GC 6890 with standard Assy consisting of: 1 Adaptation for the split/splitless injector with standard Assy of AGILENT GC 6890 (ARR-SSL-Inj-GC6890-STD) 2 SPME Arrow Liner for SSL Injector of Agilent GC 6890 1x PAL Smart SPME Arrow Kit (PAL3-SPME-SArr-Kit) 1 pc SPME Arrow Tool 1 pc Smart SPME Arrow Assortment Kit (SARR1115-SEL5-S2) 1 pc SPME Performance Evaluation Mix	X	X	
PAL3-SARR-Start-GC2010	Starter Kit Smart 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 Smart SPME Arrow Kit (PAL3-SPME-SArr-Kit) 1 pc SPME Arrow Tool 1 pc SPME Arrow Assortment Kit (SARR1115-SEL5-S2) 1 pc SPME Performance Evaluation Mix (only for SHIMADZU GC-2010 Plus, not suitable for use with GC-2010)	X	X	
PAL3-SARR-Start-GC2030	Starter Kit Smart SPME Arrow for Agilent GC 6890 with standard Assy consisting of: 1 Adaptation for the split/splitless injector with standard Assy of AGILENT GC 6890 (ARR-SSL-Inj-GC6890-STD) 2 SPME Arrow Liner for SSL Injector of Agilent GC 6890 1x PAL Smart SPME Arrow Kit (PAL3-SPME-SArr-Kit) 1 pc SPME Arrow Tool 1 pc Smart SPME Arrow Assortment Kit (SARR1115-SEL5-S2) 1 pc SPME Performance Evaluation Mix	X	X	

Part No.	Description		Compatible with:		
		RTC	RSI	LSI	
PAL3-SARR-Start-GC7890	Starter Kit Smart 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 Smart SPME Arrow Kit (PAL3-SPME-SArr-Kit) 1 pc SPME Arrow Tool 1 pc Smart SPME Arrow Assortment Kit (SARR1115-SEL5-S2) 1 pc SPME Performance Evaluation Mix	X	X		
PAL3-SARR-Start-GC8890	Starter Kit Smart SPME Arrow for Agilent GC 8890 / 8860 consisting of: 1 Adaptation for the split/splitless injector of AGILENT GC (ARR-SSL-Inj-GC8890) 2 SPME Arrow Liner for SSL Injector of Agilent GC 1x PAL Smart SPME Arrow kit (PAL3-SPME-SArr-Kit) 1 pc SPME Arrow Tool 1 pc Smart SPME Arrow Assortment Kit (SARR1115-SEL5-S2) 1 pc SPME Performance Evaluation Mix	X	X		
PAL3-SARR-Start-Tr1300	Starter Kit Smart 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 Smart SPME Arrow Kit (PAL3-SPME-SArr-Kit) 1 pc SPME Arrow Tool 1 pc Smart SPME Arrow Assortment Kit (SARR1115-SEL5-S2) 1 pc SPME Performance Evaluation Mix	X	X		
PAL3-SARR-Start-TrUltra	Starter Kit Smart 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 Smart SPME Arrow Kit (PAL3-SPME-SArr-Kit) 1 pc SPME Arrow Tool 1 pc Smart SPME Arrow Assortment Kit (SARR1115-SEL5-S2) 1 pc SPME Performance Evaluation Mix	X	X		
PAL3-SPME-SArr-Kit	Smart SPME Arrow Kit without GC Adaption Kit consisting of: 1 pc SPME Arrow Tool 1 pc Smart SPME Arrow Assortment Kit (SARR1115-SEL5-S2) 1 pc SPME Performance Evaluation Mix (Requires adaption kit for GC-specific injector)	X	X		

PAL SPME Arrow Liner

Part No.	Description
ARR-Liner-CondModule	Liner for SPME Arrow Conditioning Module, Pk of 3 pcs
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
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
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
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
ARRLIN17-GC2010-3	SPME Arrow Liner ID 1.7mm, for SSL Injector of SHIMADZU GC 2010, Pk of 3 pcs For any SPME Arrow
ARRLIN17-GC6890-3	SPME Arrow Liner ID 1.7mm, for SSL Injector of AGILENT GC 6890, Pk of 3 pcs For any SPME Arrow
ARRLIN17-GC7890-3	SPME Arrow Liner ID 1.7mm, for SSL Injector of AGILENT GC 7890, Pk of 3 pcs For any SPME Arrow
ARRLIN17-Trace1300-3	SPME Arrow Liner ID 1.7mm, for SSL Injector of Thermo GC Trace1300, Pk of 3 pcs For any SPME Arrow
ARRLIN20-TraceUltra-3	SPME Arrow Liner ID 2.0mm, for SSL Injector of Thermo GC TraceUltra, Pk of 3 pcs For any SPME Arrow

All PAL SPME Arrow Liners are available as single Liner and as pack of 3 Liners.