

Product Data Sheet

Biohit Proline Plus pipettes



Features:

- New mechanical pipette family volume range from 0.1 µl to 10ml
- Single channel models: 9 adjustable and 13 fixed
- Multichannel models: 8- and 12-channel
- Good chemical resistance
- Good UV-light resistance
- Thermal insulation of the internal components for better accuracy
- Light pipetting forces
- Patented Optiload in multichannel models for easy tip loading and light tip ejection
- Fully autoclavable without disassembling
- Easy to maintain by user: only 3 parts to be cleaned and no disassembling tool needed
- Easy to calibrate by user
- ID-number on each pipette for easy traceability
- Volume range colour coding
- Biohit CE/IVD certified Optifit standard and SafetySpace filter tips available for optimal tip-fitting and for CE/IVD compliance (Proline Plus also CE/IVD compliant)
- Wide lab-tube compatibility with slim tip ejector collar
- Safe-Cone filters to prevent contamination
- 4 starter kits available:
 - Proline Plus Starter Kit 1 (3, 10 µl pipettes)
 - Proline Plus Starter Kit 2 (10, 100 and 1000 µl pipettes)
 - Proline Plus Starter Kit 3 (20,200, 1000 µl pipettes)
 - Proline Plus Starter Kit 4(5 and 10 ml pipettes)

Target customers

- Developed market areas
 - Research
 - Clinical
 - Education
- Developing market areas
 - Industry



- Research
- Clinical
- Tenders



Technical Specifications

Weight (g)	82 140
Single channel (1000µl/1-ch) Multichannel (300µl/8-ch)	
Length (mm)	240 242
Single channel (1000µl/1-ch) Multichannel (300µl/8-ch)	
Pipetting force	1 st stop: 5N 2 nd stop: 15N 1 st stop: 9N 2 nd stop: 19N
Single channel (1000µl/1-ch) Multichannel (300µl/8-ch)	
Materials	See chemical resistance table
Autoclavability	Fully autoclavable at 121°C, 1 bar, 20 min
UV resistance	Yes Wavelength: Shortwave ultraviolet (254nm) Power: 2x20 W (twin tubes) Distance from lamp to table surface: 620mm Fixture type: UVP XX-20S
Chemical resistance	See chemical resistance table
Warranty	3 years
Pipetting principle	Air displacement (Yes) Positive displacement (No)
Pipetting modes	Pipetting (P), Reverse pipetting (rP), post delivery mixing
User calibratable	Yes
Manual tip ejection	Yes
Volume locking	No
Optiload	Only in multichannels
Thermal insulation	Yes
Stand options	Carousel stand for 6 pipettes, linear stand, pipette holder for one Proline Plus (not included in the package)
Color coding caps	No
Color coding	Yes (On display)
Safe cone filters	Yes (models > 10µl)
Filter ejector	No
ID-tags	No
CE marked (IVD)	Yes

Packaging

Material	Cardboard
Content	Proline Plus pipette Calibration tool Autoclavable grease Box of Biohit Optifit tray tips, 96 pcs (except Fixed volumes 10/5 ml pipettes) Safe-cone filters (>10 µl) and forceps Manual QC-certificate Note: Pipette holder is not included and can be ordered separately (Cat.no 725610)



Specifications

	Cat.No	Channels	Volume range	Test vol. (µl)	Inacc.(%)	Impr.(%)
Variable volume 1-ch	728010	1	0.1 – 3 µl	3	1,30	0,80
				1,5	2,40	1,60
				0,3	10,00	6,00
	728020	1	0,5-10 µl	10	1,00	0,60
				5	1,50	1,00
				1	2,50	1,50
	728030	1	2-20 µl	0,5	5,00	4,00
				20	0,90	0,40
				10	1,20	1,00
	728040	1	5-50 µl	2	3,00	2,00
				50	1,00	0,30
				25	1,40	0,50
	728050	1	10-100 µl	5	3,00	1,50
100				0,80	0,15	
50				1,00	0,40	
728060	1	20-200 µl	10	2,00	1,00	
			200	0,60	0,15	
			100	0,80	0,30	
728070	1	100-1000 µl	20	2,00	0,80	
			1000	0,60	0,20	
			500	0,60	0,20	
728080	1	500-5000 µl	100	1,00	0,40	
			5000	0,50	0,20	
			2500	0,60	0,30	
728090	1	1-10 ml	500	2,00	0,60	
			10 000	0,60	0,20	
			5000	1,20	0,30	
Fixed volume 1-ch	728515	1	5	5	1,30	1,20
				10 µl	0,80	0,80
				20 µl	0,60	0,50
	728530	1	25 µl	25	0,50	0,30
				50 µl	0,50	0,30
				100 µl	0,50	0,30
	728550	1	200 µl	200	0,40	0,20
				250 µl	0,40	0,20
				500 µl	0,30	0,20
	728565	1	1000 µl	1000	0,30	0,20
				2000 µl	0,30	0,15
				5000 µl	0,30	0,15
	728580	1	10 ml	10 000	0,60	0,20
				10	1,50	1,00
				5	2,50	2,50
728120	8	0.5-10 µl	1	4,00	4,00	
			100	0,70	0,25	
			50	1,00	0,70	
728130	8	10-100 µl	10	3,00	1,50	
			300	0,60	0,25	
			150	1,00	0,50	
728140	8	30-300 µl	30	2,00	1,00	
			10	1,50	1,00	
			5	2,50	2,50	
728220	12	0.5-10 µl	1	4,00	4,00	
			100	0,70	0,25	
			50	1,00	0,70	
728230	12	10-100 µl	10	3,00	1,50	
			300	0,60	0,25	
			150	1,00	0,50	
728240	12	30-300 µl	30	2,00	1,00	





Ordering details

	Cat. No	Colour code	Channels	Volume range	Increment (µl)	Tip	Safe Cone filters	
Variable volume 1-ch	728010	Grey	1	0.1 – 3 µl	0.002	10	N/A	
	728020	Grey	1	0.5-10 µl	0.01	10	N/A	
	728030	Yellow	1	2-20 µl	0.02	300	721014, std	
	728040	Yellow	1	5-50 µl	0.1	300	721008, std 721018, plus	
	728050	Yellow	1	10-100 µl	0.1	300,350	721008, std 721018, plus	
	728060	Yellow	1	20-200 µl	0.2	300,350	721007, std 721017, plus	
	728070	Blue	1	100-1000 µl	1	1000	721006, std 721016, plus	
	728080	Green	1	500-5000 µl	10	5000	721005, std 721015, plus	
	728090	Red	1	1-10 ml	20	10 000	721005, std 721015, plus	
Fixed volume 1-ch	728515	Grey	1	5 µl		10	N/A	
	728520	Grey	1	10 µl		10	N/A	
	728530	Yellow	1	20 µl		300	721014, std	
	728535	Yellow	1	25 µl		300	721008, std 721018, plus	
	728545	Yellow	1	50 µl		300	721008, std 721018, plus	
	728550	Yellow	1	100 µl		300,350	721008, std 721018, plus	
	728560	Yellow	1	200 µl		300,350	721007, std 721017, plus	
	728565	Blue	1	250 µl		1000	721006, std 721016, plus	
	728567	Blue	1	500 µl		1000	721006, std 721016, plus	
	728570	Blue	1	1000 µl		1000	721006, std 721016, plus	
	728575	Green	1	2000 µl		5000	721005, std 721015, plus	
	728580	Green	1	5000 µl		5000	721005, std 721015, plus	
	728090	Red	1	10 ml		10 000	721005, std 721015, plus	
	8-channel	728120	Grey	8	0.5-10 µl	0.01	10	N/A
		728130	Yellow	8	10-100 µl	0.1	300,350	721008, std 721018, plus
728140		Orange	8	30-300 µl	0.2	350	721007, std 721017, plus	
12-channel	728220	Grey	12	0.5-10 µl	0.01	10	N/A	
	728230	Yellow	12	10-100 µl	0.1	300,350	721008, std 721018, plus	
	728240	Orange	12	30-300 µl	0.2	350	721007, std 721017, plus	



Ordering details

	Cat.No.	Colour code	Channels	Volume range	Increment	Tip	Safe cone filters	
							Std.	Plus
Variable volume								
1-ch								
	728010	Grey	1-ch	0.1-3 µl	0.002 µl	10	N/A	N/A
	728020	Grey	1-ch	0.5-10 µl	0.01 µl	10	N/A	N/A
	728030	Yellow	1-ch	2-20 µl	0.02 µl	300	721014	N/A
	728050	Yellow	1-ch	10-100 µl	0.1 µl	300, 350	721008	721018
	728060	Yellow	1-ch	20-200 µl	0.2 µl	300, 350	721007	721017
	728070	Blue	1-ch	100-1000 µl	1 µl	1000	721006	721016
	728080	Green	1-ch	500-5000 µl	10 µl	5000	721005	721015
	728090	Red	1-ch	1-10 ml	20 µl	10 000	721005	721015
Fixed volume								
1-ch								
	728515	Grey	1-ch	5 µl		10	N/A	N/A
	728520	Grey	1-ch	10 µl		10	N/A	N/A
	728530	Yellow	1-ch	20 µl		300, 350	721014	N/A
	728535	Yellow	1-ch	25 µl		300, 350	721008	721018
	728545	Yellow	1-ch	50 µl		300, 350	721008	721018
	728550	Yellow	1-ch	100 µl		300, 350	721008	721018
	728560	Yellow	1-ch	200 µl		300, 350	721007	721017
	728565	Blue	1-ch	250 µl		1000	721006	721016
	728567	Blue	1-ch	500 µl		1000	721006	721016
	728570	Blue	1-ch	1000 µl		1000	721006	721016
	728575	Green	1-ch	2000 µl		5000	721005	721015
	728580	Green	1-ch	5000 µl		5000	721005	721015
	728590	Red	1-ch	10 ml		10 000	721005	721015
8-channel								
	728120	Grey	8-ch	0.5-10 µl	0.01 µl	10	N/A	N/A
	728130	Yellow	8-ch	10-100 µl	0.1 µl	300, 350	721008	721018
	728140	Orange	8-ch	30-300 µl	0.2 µl	350	721007	721017
12-channel								
	728220	Grey	12-ch	0.5-10 µl	0.01 µl	10	N/A	N/A
	728230	Yellow	12-ch	10-100 µl	0.1 µl	300, 350	721008	721018
	728240	Orange	12-ch	30-300 µl	0.2 µl	350	721007	721017
Starter kits								
	728650	0.1-3 µl and 0.5-10 µl						
	728651	0.5-10 µl, 10-100 µl and 100-1000 µl						
	728652	2-20 µl, 20-200 µl and 100-1000 µl						
	728653	500-5000 µl and 1-10 ml						

