

Glass Tip and Adapter Instruction Manual

1. Package contents

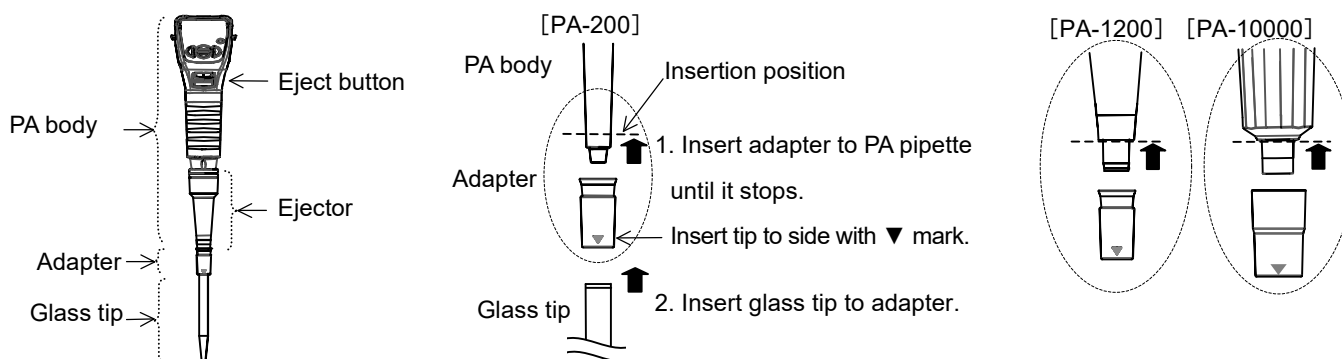
Product name	Model name	Description		Applicable pipettes
200/1200 μ L Glass Tip Set	AX-GL-200/1200	Glass Tip for 200/1200 μ L pipette	10 pcs	PA-200 PA-1200
		Adapter for 200/1200 μ L pipette	2 pcs	
		Instruction manual (this manual)	1	
10 mL Glass Tip Set	AX-GL-10ML	Glass Tip for 10 mL pipette	10 pcs	PA-10000
		Adapter for 10 mL pipette	2 pcs	
		Instruction manual (this manual)	1	
200/1200 μ L Adapter Set	AX-ADP-200/1200	Adapter for 200/1200 μ L pipette	10 pcs	PA-200 PA-1200
		Instruction manual (this manual)	1	
10 mL Adapter Set	AX-ADP-10ML	Adapter for 10 mL pipette	10 pcs	PA-10000
		Instruction manual (this manual)	1	

*The same glass tip and adapter are used for the PA-200 and PA-1200

2. Features

- Allows you to dispense with glass tips using the PA series electronic pipettes. Electronic pipettes dispense quicker and more easily than volumetric pipettes.
- Glass tips are made from borosilicate glass with extremely low alkaline elution.
- 200/1200 μ L pipette adapters can also be used with commercially available Pasteur pipettes. (Body outer diameter \varnothing 7 mm)
Visit our webpage for applicable Pasteur pipettes. A&D Webpage: <http://www.aandd.jp>

3. How to use



- Do not use the PA eject button to remove the glass tip and adapter. Instead, hold the ejector in one hand and pull the glass tip and adapter straight down.
- Retention of liquid differs for polypropylene and glass tips. We recommend that you confirm pipetting precision with the liquid that will be used and calibrate the volume when necessary. Refer to the PA series instruction manual for volume calibration methods.
- An operation guide on pipetting viscous or volatile substances can be found on our webpage.

4. Specifications

		PA-200		PA-1200		PA-10000		
Capacity range		10 μ L to 200 μ L		100 μ L to 1200 μ L		1 mL to 10 mL		
Performance*1	Capacity	50 μ L	200 μ L	100 μ L	1200 μ L	1 mL	5 mL	10 mL
	Accuracy	\pm 5.0%	\pm 3.0%	\pm 5.0%	\pm 1.0%	\pm 5.0%	\pm 2.0%	\pm 1.0%
	Repeatability (CV)	2.0%	0.3%	3.0%	0.3%	3.0%	1.5%	0.3%

	Length	Body outer diameter	Material
200/1200 μ L Glass Tip	112 mm	\varnothing 7 mm	Borosilicate glass-1 (JIS R 3503 JR-1) *2
10 mL Glass Tip	168 mm	\varnothing 13 mm	
200/1200 μ L Adapter	-	-	Silicone rubber (gray)
10 mL Adapter	-	-	Silicone rubber (blue)

*Glass tips and adapter can be autoclaved. Autoclave conditions: 121 °C at 2 atm for 20 min

*1: With PA glass tips

*2: According to the Japanese Industrial Standards (JIS R 3503) JR-1 has the smallest coefficient of thermal expansion and low alkaline elution.

[Usage notes]

- Separate glass tip from adapter before storage. Glass tip may become difficult to remove if attached to the adapter for long periods of time.
- Check for cracks, fissures or other abnormalities before use
- Be careful when washing the glass tip and adapter not to drop, expose to shocks or bend.