Glass Tip and Adapter Instruction Manual

1. Package contents

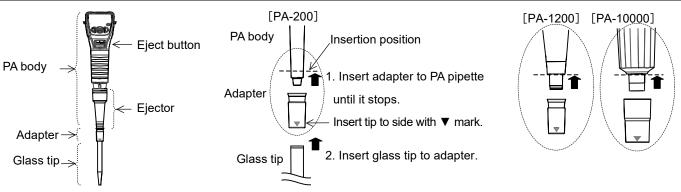
| Product name | Model name | Description | Applicable pipettes | | |
|------------------------------|-----------------|-----------------------------------|------------------------|-------------------|--|
| 200/1200 µL Glass Tip Set | | Glass Tip for 200/1200 µL pipette | 10 pcs | PA-200 PA-1200 | |
| | AX-GL-200/1200 | Adapter for 200/1200 µL pipette | 2 pcs | | |
| | | Instruction manual (this manual) | 17-1200 | | |
| 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 µL | AX-ADP-200/1200 | Adapter for 200/1200 µL pipette | 10 pcs | PA-200 | |
| Adapter Set | | Instruction manual (this manual) | PA-1200 | | |
| 10 mL Adapter Set | AX-ADP-10ML | Adapter for 10 mL pipette | 10 pcs | PA-10000 | |
| | | Instruction manual (this manual) | 1 | FA-10000 | |

*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 µL pipette adapters can also be used with commercially available Pasteur pipettes. (Body outer diameter Ø 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 µL to 200 µL | | 100 µL to 1200 µL | | ıL | 1 mL to 10 mL | | _ |
| Capacity | 50 µL | 200 µ | L | 100 µL | 1200 | μL | 1 mL | 5 mL | 10 mL |
| Accuracy | ± 5.0% | ± 3.0% | % | ± 5.0% | ± 1.0% | ± 5.0% | ± 2.0% | ± 1.0% | |
| Repeatability (CV) | 2.0% | 0.3% | 5 | 3.0% | 0.3 | % | 3.0% | 1.5% | 0.3% |
| | | Length | | 3ody outer diameter | | | Material | |] |
| 200/1200 μL Glass Tip | | 112 mm | | Ø7mm | | | Borosilicate glass-1 | | |
| 10 mL Glass Tip | | 168 mm | | Ø 13 mm | | | (JIS R 3503 JR-1) *2 | | |
| 200/1200 µL Adapter | | - | | - | | 9 | Silicone rubber (gray) | | |
| 10 mL Adapter | | - | | - | | 5 | Silicone rubber (blue) | | 1 |
| | Capacity Accuracy Repeatability (CV) ass Tip | 10 μL t Capacity 50 μL Accuracy ± 5.0% Repeatability (CV) 2.0% Length ass Tip 112 mm 0 168 mm | 10 µL to 200 µL Capacity 50 µL 200 µ Accuracy ± 5.0% ± 3.0° Repeatability (CV) 2.0% 0.3% Length ass Tip 112 mm 0 168 mm 0 | 10 µL to 200 µL Capacity 50 µL 200 µL Accuracy ± 5.0% ± 3.0% Repeatability (CV) 2.0% 0.3% Length Bo ass Tip 112 mm 0 168 mm | 10 μL to 200 μL 100 μL to Capacity 50 μL 200 μL 100 μL Accuracy ± 5.0% ± 3.0% ± 5.0% Repeatability (CV) 2.0% 0.3% 3.0% Length Body outer dia ass Tip 112 mm Ø 7 mm 0 168 mm Ø 13 mm | 10 µL to 200 µL 100 µL to 1200 µ Capacity 50 µL 200 µL 100 µL 1200 Accuracy ± 5.0% ± 3.0% ± 5.0% ± 1.0 Repeatability (CV) 2.0% 0.3% 3.0% 0.3% Length Body outer diameter ass Tip 112 mm Ø 7 mm D 168 mm Ø 13 mm | 10 µL to 200 µL 100 µL to 1200 µL Capacity 50 µL 200 µL 100 µL 1200 µL Accuracy ± 5.0% ± 3.0% ± 5.0% ± 1.0% Repeatability (CV) 2.0% 0.3% 3.0% 0.3% Length Body outer diameter ass Tip 112 mm Ø 7 mm D 168 mm Ø 13 mm gater - 50 state | 10 μL to 200 μL 100 μL to 1200 μL 1 Capacity 50 μL 200 μL 100 μL 1200 μL 1 mL Accuracy ± 5.0% ± 3.0% ± 5.0% ± 1.0% ± 5.0% Repeatability (CV) 2.0% 0.3% 3.0% 0.3% 3.0% Length Body outer diameter Materi ass Tip 112 mm Ø 7 mm Borosilicate 0 168 mm Ø 13 mm (JIS R 3503) apter - Silicone rubb Silicone rubb | 10 µL to 200 µL 100 µL to 1200 µL 1 mL to 10 ml Capacity 50 µL 200 µL 100 µL 1200 µL 1 mL 5 mL Accuracy ± 5.0% ± 3.0% ± 5.0% ± 1.0% ± 5.0% ± 2.0% Repeatability (CV) 2.0% 0.3% 3.0% 0.3% 3.0% 1.5% Length Body outer diameter Material ass Tip 112 mm Ø 7 mm Borosilicate glass-1 O 168 mm Ø 13 mm (JIS R 3503 JR-1) *² apter - Silicone rubber (gray) |

•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.

