12. Warranty Information

The pipettes are warranted for one year against defects in materials and workmanship. Should it fail to function in any period of time, please contact your local representative immediately. The warranty will not cover defects caused by normal wear or by using the pipette against the instructions gives in this manual.

Each pipette is tested before shipping by the manufacturer.

The Quality Assurance Procedure is your guarantee that the pipette you have purchased is ready for use.

13. Performance indicators

Adjustable volume pipette

Range	Measuring volume（μl）	Maximum allowable system error (inaccuracy)		Allow maximum random error (imprecision)	
		%	μl	%	μl
0.1-2.5μl	2.5	2.50%	0.0625	2.00%	0.05
	1.25	3.00%	0.0375	3.00%	0.0375
	0.25	12.00%	0.03	6.00%	0.015
0.5-10μl	10	1.00%	0.1	0.80%	0.08
	5	1.50%	0.075	1.50%	0.075
	1	2.50%	0.025	1.50%	0.015
2-20μl	20	0.90%	0.18	0.40%	0.08
	10	1.20%	0.12	1.00%	0.1
	2	3.00%	0.06	2.00%	0.04
5-50μl	50	0.60%	0.3	0.30%	0.15
	25	0.90%	0.225	0.60%	0.15
	5	2.00%	0.1	2.00%	0.1
10-100μl	100	0.80%	0.8	0.15%	0.15
	50	1.00%	0.5	0.40%	0.2
	10	3.00%	0.3	1.50%	0.15
20-200μl	200	0.60%	1.2	0.15%	0.3
	100	0.80%	0.8	0.30%	0.3
	20	3.00%	0.6	1.00%	0.2
50-200μl	200	0.60%	1.2	0.15%	0.3
	100	0.80%	0.8	0.30%	0.3
	50	1.00%	0.5	0.40%	0.2
100-1000μl	1000	0.60%	6	0.20%	2
	500	0.70%	3.5	0.25%	1.25
	100	2.00%	2	0.70%	0.7
200-1000μl	1000	0.60%	6	0.20%	2
	500	0.70%	3.5	0.25%	1.25

	200	0.90%	1.8	0.30%	0.6
1000-5000μl	5000	0.50%	25	0.15%	7.5
	2500	0.60%	15	0.30%	7.5
	1000	0.70%	7	0.30%	3
		%	μl	%	μl
2-10	10000	0.60%	60	0.20%	20
	5000	1.20%	60	0.30%	15
	2000	3.00%	60	0.60%	12

8-channel adjustable pipette

Range	Measuring volume（μl）	Maximum allowable system error (inaccuracy)		Allow maximum random error (imprecision)	
		%	μl	%	μl
0.5-10μl	10	1.50%	0.15	1.50%	0.15
	5	2.50%	0.125	2.50%	0.125
	1	4.00%	0.04	4.00%	0.04
5-50μl	50	1.00%	0.5	0.50%	0.25
	25	1.50%	0.375	1.00%	0.25
	5	3.00%	0.15	2.00%	0.1
50-300μl	300	0.70%	2.1	0.25%	0.75
	150	1.00%	1.5	0.50%	0.75
	50	1.50%	0.75	0.80%	0.4

12-channel adjustable pipette

Range	Measuring volume（μl）	Maximum allowable system error (inaccuracy)		Allow maximum random error (imprecision)	
		%	μl	%	μl
0.5-10μl	10	1.50%	0.15	1.50%	0.15
	5	2.50%	0.125	2.50%	0.125
	1	4.00%	0.04	4.00%	0.04
5-50μl	50	1.00%	0.5	0.50%	0.25
	25	1.50%	0.375	1.00%	0.25
	5	3.00%	0.15	2.00%	0.1
50-300μl	300	0.70%	2.1	0.25%	0.75
	150	1.00%	1.5	0.50%	0.75
	50	1.50%	0.75	0.80%	0.4

Fixed volume pipette

Range	Measuring volume（μl）	Maximum allowable system error (inaccuracy)		Allow maximum random error (imprecision)	
		%	μl	%	μl
5μl	5μl	1.3%	0.065	1.2%	0.06

10µl	10µl	0.8%	0.08	0.8%	0.08
20µl	20µl	0.6%	0.12	0.5%	0.1
25µl	25µl	0.5%	0.125	0.3%	0.075
50µl	50µl	0.5%	0.25	0.3%	0.15
100µl	100µl	0.5%	0.5	0.3%	0.3
200µl	200µl	0.4%	0.8	0.2%	0.4
250µl	250µl	0.4%	1.0	0.2%	0.5
500µl	500µl	0.3%	1.5	0.2%	1.0
1000µl	1000µl	0.3%	3.0	0.2%	2.0
2000µl	2000µl	0.3%	6.0	0.15%	3.0
5000µl	5000µl	0.3%	15	0.15%	7.5