VERTEX® CALIBRATION REPORT

VOLUME : 1000 µl
REF. NO. : 600900
SERIAL NO. : 023057616
CAL DATE : 27/07/2023
DUE ON : 26/07/2024
MANUFACTURER : RVIPL
MICROTIP : 200-1000 µl
OPERATOR : 2

TEMPRATURE : 25°C
AIR PRESSURE: 992hpa
HUMIDITY: 60%
Z FACTOR: 1.004 µl/mg
BALANCE: GR202 AND (JAPAN)
BALANCE SR. NO.: 14219380
BALANCE CAL. DUE : 21/12/2023
METHOD : DIN / EN / ISO 8655 (PART 2-6)

Q.C-I : PHYSICAL INSPECTION

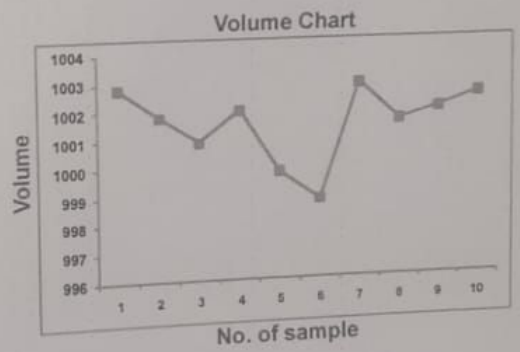
NUMBER.	1	2	3	4	5	6	7	8
SPARE PARTS.	DIGITS	PISTON	SPRING SUPPORT	SPRING	SHAFT	TIP EJECTOR	TIP CONE	HANDLE MECHANISM
RESULT	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Q.C-II : CALIBRATION READINGS

SAMPLE	1	2	3	4	5	6	7	8	9	10
TEST VOL (µl)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
WEIGHT (mg)	998.80	997.60	996.90	998.00	995.80	994.90	998.90	997.60	998.00	998.60
VOLUME (µl)	1002.80	1001.80	1000.80	1001.99	999.80	998.88	1002.60	1001.80	1001.90	1002.60

SUMMARY STATISTICS

			EXPENDED UNCERTAINTY IN µl AT k = 2					
VOLUME µl	MEAN	SD	ACTUAL	TARGET		ACTUAL	TARGET	
1000	1000.315	0.1616	0.3147	±1.5		0.1611	±0.6	



Inspected By :

Sign :

Operated By :

Sign :

▲THE REPORTED EXPANDED UNCERTAINTY IS AT COVERAGE FACTORE K =2 ± (199.9999g), WHICH CORRESPONDS TO A COVERAGE PROBABILITY OF APPROXIMATELY 95% FOR A NORMAL DISTRIBUTION

▲ METHOD BASED ON ISO /DIN / EN 8655 (PART 2 , 6)

▲STANDARDS USED ON CALIBRATION WERE TRACEABLE TO NPL, DELHI.

▲ NOTE : THIS CERTIFICATE REFER ONLY TO THE PARICULAR ITEM (S) SUBMITTED FOR CALIBRATION

VERTEX® CALIBRATION REPORT

VOLUME	: 50 µl
REF. NO.	: 600800
SERIAL NO.	: 023057635
CAL DATE	: 27/07/2023
DUE ON	: 26/07/2024
MANUFACTURER	: RVIPL
MICROTIP	: 2-200 µl
OPERATOR	: 2

TEMPRATURE :	26°C
AIR PRESSURE:	992hpa
HUMIDITY:	60%
Z FACTOR:	1.004 µl/mg
BALANCE:	GR202 AND (JAPAN)
BALANCE SR. NO.:	14219380
BALANCE CAL. DUE :	21/12/2023
METHOD :	DIN / EN / ISO 8655 (PART 2-6)

Q.C-I : PHYSICAL INSPECTION

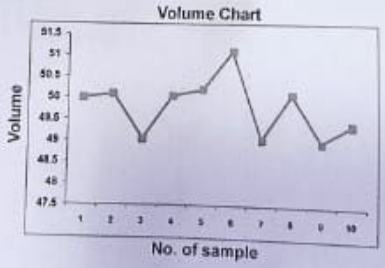
NUMBER.	1	2	3	4	5	6	7	8
SPARE PARTS.	DIGITS	PISTON	SPRING SUPPORT	SPRING	SHAFT	TIP EJECTOR	TIP CONE	HANDLE MECHANISM
RESULT	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Q.C-II : CALIBRATION READINGS

SAMPLE	1	2	3	4	5	6	7	8	9	10
TEST VOL. (µl)	50	50	50	50	50	50	50	50	50	50
WEIGHT (mg)	49.60	49.50	49.85	49.95	50.00	49.90	48.85	49.90	48.80	49.20
VOLUME (µl)	50.00	50.10	49.05	50.05	50.20	51.10	49.05	50.10	49.00	49.40

SUMMARY STATISTICS

VOLUME µl	MEAN	SD	EXPENDED UNCERTAINTY IN µl AT k = 2					
			ACTUAL	TARGET		ACTUAL	TARGET	
50.0	50.07	0.058	0.150	±0.750		-0.015	±2.0	



Operated By :

Sign :

Inspected By :

Sign

* THE REPORTED EXPANDED UNCERTAINTY IS AT COVERAGE FACTORE K =2 ± (199.9999g), WHICH CORRESPONDS TO A COVERAGE PROBABILITY OF APPROXIMATELY 95% FOR A NORMAL DISTRIBUTION
* METHOD BASED ON ISO /DIN / EN 8655 (PART 2, 6)
* STANDARDS USED ON CALIBRATION WERE TRACEABLE TO NPL, DELHI.
* NOTE : THIS CERTIFICATE REFER ONLY TO THE PARICULAR ITEM (S) SUBMITTED FOR CALIBRATION

QUALITY CONTROL CERTIFICATE
QUALITÄTSKONTROLLZERTIFIKAT
CERTIFICAT DE CONTRÔLE QUALITÉ
CERTIFICADO DE CONTROL DE CALIDAD
CERTIFICATO DI CONTROLLO QUALITÀ

Pipette 100-1000ul

Serial Number/Serien-Nr/N° de série/Número de serie/Numoro di Soric: YE231BD0013814

Mode/Programm/Modo/Funzione: P Volume/Volumen: 200.00 ul

Mean/Mittelwert/Moyenne/Signficado/Medio: 200.60 ul

Inaccuracy/Unrichtigkeit/Erreur de justesse/Inexatitud/Inaccuratezza: 0.30 %

Imprecision/Unpräzision/Erreur de répétabilite/Imprecisión/Imprecisione: 0.08 %

Date/Datum/Date/Fecha/Data: 2023-01-18 11:41:15

According to/Nach/Selon/Según/In base a: ISO8655 DIN 12650; 21°C

Tested by/Prüfer/Testée par/Comprobado por/Testado da: Rose

CE ISO 9001/13485 CERTIFIED