



## CALIBRATION CERTIFICATE

This is to certify that the following equipment was routinely serviced and calibrated with standard calibration solution ISE SNAP PACK. All the parameters were found within the required Millivolt range.

**ROCHE 9180 Electrolyte Analyzer**

**Date: 13.02.2020**

<b>CUSTOMER</b>	VIJAYA DIAGNOSTICS
	NELLORE
<b>EQUIPMENT MODEL/ SERIAL NO</b>	9180/ 19446
<b>CALIBRATION STATUS</b>	OK
<b>CALIBRATION DATE</b>	13.02.2020
<b>CALIBRATION VALID THROUGH</b>	12.02.2021

### Expected Millivolt Values

Electrode	Standard-A milli volts	Standard B milli volts	Standard C milli volts	Difference A-B milli volts	Difference A-C milli volts
Na	-600 to 2400	-1600 to 2000	-600 to 2400	250 to 680	-50 to 50
K	-700 to 1000	-2500 to 500	-700 to 100	470 to 1200	-40 to 40
Cl-	-3100 to -100	-1000 to 3000	-3100 to -100	-370 to -860	N/A
Ca+	-3100 to 1000	-2300 to 2500	-3100 to 1000	-350 to -660	-150 to 150
Li+	-3100 to 1900	-3600 to 1400	-2600 to 3400	1 to 760	-1730 to -285

### Measured Calibration Millivolt Values

Electrode	Standard A Solution mv	Difference A-B mv	Difference A-C mv
Na	83	540	N/A
K	-320	999	N/A
CL	-178	-144	N/A

**For Roche Diagnostic India Pvt.Ltd**

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Asst.Consultant-Technical, Vijayawada  
Roche Professional Services

