



**CURRENT CALIBRATION CERTIFICATE OF A15**

CUSTOMER NAME – NATIONAL LAB, MADURAI.

Serial Number = 831056307

Firmware = 4.13

A15 Configuration checksum value = 0\*4D8C

A15 Configuration checksum size = 985

Rotor Temperature = 37.06

Prove Temperature = 41.2

System Liquid Scale Sensivity = 147

Waste Scale Sensivity = 201

Level Detection Improved Rack = 1

Sensitivity: (Tube Rack) = 35

Sensitivity: (Pediatric Rack) = 53

Sensitivity: (Reagent Rack) = 15

X - Origin = 47

Y - Origin = 250

Z - Origin = 431

X - Washing Station = 363

Y - Washing Station = 81

Z - Washing Station = 540

X - Reactions Rotor = 93

Y - Reactions Rotor = 1034

Z - Reactions Rotor = 602

Tray XYZ - Pediatric Rack

X1 (Rack1, 2, 3, 4) = 271, 2154, 1608, 1056

X2 (Rack1, 2, 3, 4) = 2636, 2146, 1600, 1054

Y1 (Rack1, 2, 3, 4) = 89, 92, 90, 89

Y2 (Rack1, 2, 3, 4) = 1438, 1437, 1436, 1434

Z1 (Rack1, 2, 3, 4) = 734, 736, 737, 735

Z2 (Rack1, 2, 3, 4) = 694, 697, 699, 699

Z Relation Pediatric-Tube = 475

Tray XYZ - Reagent Rack

X1 (Rack1, 2, 3, 4) = 2446, 1903, 1352, 804

X2 (Rack1, 2, 3, 4) = 2448, 1912, 1355, 818

Y1 (Rack1, 2, 3, 4) = 101, 101, 103, 100

Y2 (Rack1, 2, 3, 4) = 1433, 1435, 1436, 1437

Z1 (Rack1, 2, 3, 4) = 1195, 1159, 1158, 1158

Z2 (Rack1, 2, 3, 4) = 1158, 1159, 1158, 1159

Rotor Position correction regarding to the dispensation point = 104

Rotor Position correction regarding to the optical system = -6

Filters wheel correction = 3

Filter 0 = 0 (nm) IT = 10.2 (ms) Ref. IT = 9.7 (ms)  
Filter 1 = 340 (nm) IT = 3154.4(ms) Ref. IT = 315.4 (ms)  
Filter 2 = 405 (nm) IT = 67.1 (ms) Ref. IT = 37.1 (ms)  
Filter 3 = 505 (nm) IT = 76.8 (ms) Ref. IT = 76.8 (ms)  
Filter 4 = 535 (nm) IT = 65 (ms) Ref. IT = 64.5 (ms)  
Filter 5 = 560 (nm) IT = 71.7 (ms) Ref. IT = 71.1 (ms)  
Filter 6 = 600 (nm) IT = 80.4 (ms) Ref. IT = 80.4 (ms)  
Filter 7 = 635 (nm) IT = 85 (ms) Ref. IT = 85 (ms)  
Filter 8 = 670 (nm) IT = 91.1 (ms) Ref. IT = 90.6 (ms)  
Filter 9 = 0 (nm) IT = 10.2 (ms) Ref. IT = 9.7 (ms)  
X - Axis = 6231162 (x1000 steps)  
Y - Axis = 357654 (x1000 steps)  
Z - Axis = 730486 (x1000 steps)  
Reaction Rotor = 45024 (x10000 steps)  
Filter Wheel = 1639390 (x100 steps)  
Dispensing Pump = 616137 (x10000 steps)  
Membrane pumps = 127894 (Commutation)  
3 - Wayelectrovalve = 522406 (Commutation)  
Lamp = 0 (Hours)  
Biochemical preparation = 61260 (Cicles)  
Turbidimetry preparation = 114 (Cicles)  
Bireagent Biochemical preparation = 15881 (Cicles)  
BireagentTurbidimetry preparation = 0 (Cicles)  
Predilution = 0 (Cicles)  
Start/End Washings = 3702 (Cicles)  
WS Washings = 20422(Cicles)  
H2O Washings = 309 (Cicles)  
New Rotor = 622 (Rotors)  
Contaminations detected = 12 Contaminations detected

**Calibration Date : 01-06-2020**

**Next Calibration due on: 31-05-2021**

**THIS INSTRUMENT IS CALIBRATED BY USING THE PERFORMANCE OF THE LIQUID CALIBRATOR ONLY**

**SERVICE MANAGER**

Authorized signatory



NOTE: 1) Calibration Points & due date is given as per customer request 2) This certificate refer only to particular item submitted for certificate3) The calibration results reported are valid at the time of and under the stated conditions of the measurements4) Any error in the certificate should be brought to our lab within 45 days from the date of issue of certificate.