

Intro

Basic Endpoint Protocol

Use this protocol for endpoint assays that have unknowns that will have concentrations interpolated from a standard curve. Modify the instrument setup for the wavelength(s) of interest for your assay. You may also modify the template to include additional standards, unknowns, and controls. To make modifications, click the plate section to make it active.

READER SUITABILITY:

SpectraMax M2, M2e, M3, M4, M5, and M5e.

SpectraMax Plus 384, 190, SpectraMax 190, 340PC 384 and VersaMax
Emax and Vmax

PROTOCOL REVISION HISTORY:

03/02/11 - Imported from 5.4 and edited. (ELM)

10/11/11 - Updated with the additional instruments supported in SMP 6.1

Plate1

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | 2.8e7 | 4.3e7 | 4.3e7 | 9.4e4 | 6.5e4 | 7.4e4 | 1.0e5 | 8.1e4 | 3.9e4 | 7.3e4 | 6.5e4 | 6.9e4 |
| B | 6.1e6 | 7.0e6 | 5.2e6 | 1.5e5 | 1.0e5 | 7.2e4 | 1.1e5 | 5.0e4 | 1.1e5 | 4.8e4 | 9.2e4 | 8.7e4 |
| C | 7.5e5 | 5.9e5 | 6.3e5 | 9.5e4 | 8.0e4 | 6.2e4 | 9.9e4 | 5.3e4 | 2.6e5 | 4.7e4 | 1.3e5 | 1.4e5 |
| D | 6.6e4 | 6.4e4 | 5.0e4 | 1.4e5 | 7.6e4 | 7.2e4 | 6.6e4 | 9.6e4 | 7.0e4 | 3.1e4 | 1.3e5 | 2.8e5 |
| E | 5139.6 | 3651.6 | 476.56 | 6.0e4 | 1.0e5 | 5.7e4 | 3.6e4 | 8.1e4 | 9.6e4 | 1.0e5 | 8.8e4 | 8.5e4 |
| F | -2757 | -5579 | -1042 | 6.4e4 | 4.1e4 | 4.5e4 | 3.8e4 | 8.9e4 | 8.0e4 | 8.4e4 | 5.0e4 | 7.6e4 |
| G | -4488 | 2.9e4 | -2984 | 9.2e4 | 4.6e4 | 3.9e4 | 2.8e4 | 4.1e4 | 4.5e4 | 7.4e4 | 9.2e4 | 3.8e4 |
| H | -3827 | -4396 | -4352 | 1.1e5 | 8.9e4 | 4.0e4 | 6.9e4 | 9.2e4 | 6.1e4 | 1.6e5 | 1.3e5 | 8.6e4 |

Reduction Settings

Group Blank Used (Raw Values)
Wavelength Combination : !Lm1

Settings Information

Endpoint
 Fluorescence
 Lm1 485, 535
 Slide(s) Ex1, Em1
 More Settings
 Shake Off
 ReadOrder Row
 Show Optimizer On
 PMT and Optics
 Integration Time 400 ms
 Read from Top
 Read Height 1.00 mm

Read Information

FilterMax F5
 ROM vV1.1 b32 10.12.2010
 Start Read : 2:04 PM
 8/12/2015
 Mean Temperature : 24.5 °C

Group01

| Sample | Conc | BackCalcConc | Wells | Value | MeanValue | SD | CV |
|--------|------|--------------|-------|-------|-----------|----|----|
|--------|------|--------------|-------|-------|-----------|----|----|

Plate2

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | 124.00 | 14.000 | -9.000 | 9.7e4 | 5.1e4 | 1.1e5 | 2.2e5 | 2.2e5 | 1.4e5 | 6.8e5 | 6.0e5 | 9.9e5 |
| B | 87.000 | 97.000 | 59.000 | 4.3e5 | 9.2e4 | 1.3e5 | 8.2e4 | 1.3e5 | 2.7e5 | 1.4e6 | 4.5e5 | 6.8e5 |
| C | 10.000 | 43.000 | -56.00 | 1.3e5 | 8.7e4 | 2.8e5 | 1.2e6 | 1.4e6 | 4.0e6 | 5.4e5 | 2.4e5 | 1.2e6 |
| D | 10.000 | -66.00 | -35.00 | 8.9e4 | 9.3e4 | 8.7e4 | 1.7e6 | 1.7e6 | 2.4e6 | 1.0e6 | 5.5e4 | 9.0e5 |
| E | -33.00 | -142.0 | -38.00 | 6.0e4 | 1.6e5 | 7.5e4 | 3.0e5 | 2.8e5 | 1.2e6 | 1.5e6 | 7.1e5 | 6.6e5 |
| F | 23.000 | 8.000 | 0.000 | 9.0e4 | 3.3e4 | 7.6e4 | 1.7e6 | 2.2e6 | 1.1e6 | 1.5e6 | 6.3e5 | 6.5e5 |
| G | -84.00 | 58.000 | -58.00 | 4.2e4 | 3.0e4 | 4.6e4 | 3.6e5 | 4.7e5 | 7.8e5 | 1.3e6 | 3.7e5 | 2.4e5 |
| H | 28.000 | -76.00 | 36.000 | 7.6e4 | 7.6e5 | 6.3e5 | 1.6e6 | 2.1e6 | 6.4e5 | 2.1e6 | 4.2e5 | 1.2e6 |

Reduction Settings

Group Blank Used (Raw Values)
Wavelength Combination : !Lm1

Settings Information

Endpoint
 Fluorescence
 Lm1 485, 535
 Slide(s) Ex1, Em1
 More Settings
 Shake Off
 ReadOrder Row
 Show Optimizer On
 PMT and Optics
 Integration Time 400 ms
 Read from Top
 Read Height 1.00 mm

Read Information

FilterMax F5
 ROM vV1.1 b32 10.12.2010
 Start Read : 2:07 PM
 8/12/2015
 Mean Temperature : 24.5 °C

Standards

| Sample | Conc | BackCalcConc | Wells | Value | MeanValue | SD | CV |
|--------|-------|--------------|-------|----------|--------------|-------|------|
| 01 | 0.100 | 0.072 | A1 | 2781... | 38193744.... | 89... | 23.5 |
| | | 0.113 | A2 | 4339... | | | |
| | | 0.113 | A3 | 4336... | | | |
| 02 | 0.010 | 0.015 | B1 | 6128... | 6109049.889 | 93... | 15.2 |
| | | 0.017 | B2 | 7029... | | | |
| | | 0.012 | B3 | 5169... | | | |
| 03 | 0.001 | 0.000 | C1 | 7475... | 658635.889 | 79... | 12.1 |
| | | -0.000 | C2 | 5945... | | | |
| | | 0.000 | C3 | 6338... | | | |
| 04 | 0.000 | -0.001 | D1 | 6599... | 59776.556 | 87... | 14.7 |
| | | -0.001 | D2 | 6360... | | | |
| | | -0.002 | D3 | 4972... | | | |
| 05 | 0.000 | -0.002 | E1 | 5139.... | 3089.222 | 23... | 77.1 |
| | | -0.002 | E2 | 3651.... | | | |
| | | -0.002 | E3 | 476.5... | | | |

Smallest standard value: 3089.222

Largest standard value: 38193744.222

Unknowns

| Sample | Wells | Value | R | Result | MeanResult | SD | CV |
|--------|-------|---------|---|--------|------------|-------|-----|
| 097 | A4 | 9668... | | -0.001 | -0.001 | 0.... | 0.0 |
| 098 | B4 | 4254... | | -0.001 | -0.001 | 0.... | 0.0 |
| 099 | C4 | 1263... | | -0.001 | -0.001 | 0.... | 0.0 |
| 100 | D4 | 8857... | | -0.001 | -0.001 | 0.... | 0.0 |
| 101 | E4 | 5986... | | -0.001 | -0.001 | 0.... | 0.0 |
| 102 | F4 | 8990... | | -0.001 | -0.001 | 0.... | 0.0 |
| 103 | G4 | 4169... | | -0.002 | -0.002 | 0.... | 0.0 |
| 104 | H4 | 7638... | | -0.001 | -0.001 | 0.... | 0.0 |
| 105 | A5 | 5128... | | -0.001 | -0.001 | 0.... | 0.0 |
| 106 | B5 | 9172... | | -0.001 | -0.001 | 0.... | 0.0 |
| 107 | C5 | 8697... | | -0.001 | -0.001 | 0.... | 0.0 |
| 108 | D5 | 9303... | | -0.001 | -0.001 | 0.... | 0.0 |
| 109 | E5 | 1640... | | -0.001 | -0.001 | 0.... | 0.0 |
| 110 | F5 | 3271... | | -0.002 | -0.002 | 0.... | 0.0 |
| 111 | G5 | 3004... | | -0.002 | -0.002 | 0.... | 0.0 |
| 112 | H5 | 7606... | | 0.000 | 0.000 | 0.... | 0.0 |
| 113 | A6 | 1130... | | -0.001 | -0.001 | 0.... | 0.0 |
| 114 | B6 | 1341... | | -0.001 | -0.001 | 0.... | 0.0 |
| 115 | C6 | 2782... | | -0.001 | -0.001 | 0.... | 0.0 |
| 116 | D6 | 8660... | | -0.001 | -0.001 | 0.... | 0.0 |
| 117 | E6 | 7481... | | -0.001 | -0.001 | 0.... | 0.0 |
| 118 | F6 | 7587... | | -0.001 | -0.001 | 0.... | 0.0 |
| 119 | G6 | 4621... | | -0.002 | -0.002 | 0.... | 0.0 |
| 120 | H6 | 6284... | | 0.000 | 0.000 | 0.... | 0.0 |
| 121 | A7 | 2208... | | -0.001 | -0.001 | 0.... | 0.0 |
| 122 | B7 | 8207... | | -0.001 | -0.001 | 0.... | 0.0 |
| 123 | C7 | 1210... | | 0.002 | 0.002 | 0.... | 0.0 |
| 124 | D7 | 1687... | | 0.003 | 0.003 | 0.... | 0.0 |
| 125 | E7 | 3017... | | -0.001 | -0.001 | 0.... | 0.0 |
| 126 | F7 | 1654... | | 0.003 | 0.003 | 0.... | 0.0 |
| 127 | G7 | 3586... | | -0.001 | -0.001 | 0.... | 0.0 |
| 128 | H7 | 1580... | | 0.003 | 0.003 | 0.... | 0.0 |
| 129 | A8 | 2243... | | -0.001 | -0.001 | 0.... | 0.0 |
| 130 | B8 | 1286... | | -0.001 | -0.001 | 0.... | 0.0 |
| 131 | C8 | 1383... | | 0.002 | 0.002 | 0.... | 0.0 |
| 132 | D8 | 1707... | | 0.003 | 0.003 | 0.... | 0.0 |
| 133 | E8 | 2795... | | -0.001 | -0.001 | 0.... | 0.0 |
| 134 | F8 | 2174... | | 0.004 | 0.004 | 0.... | 0.0 |
| 135 | G8 | 4739... | | -0.000 | -0.000 | 0.... | 0.0 |
| 136 | H8 | 2064... | | 0.004 | 0.004 | 0.... | 0.0 |
| 137 | A9 | 1422... | | -0.001 | -0.001 | 0.... | 0.0 |
| 138 | B9 | 2659... | | -0.001 | -0.001 | 0.... | 0.0 |
| 139 | C9 | 4028... | | 0.009 | 0.009 | 0.... | 0.0 |
| 140 | D9 | 2404... | | 0.005 | 0.005 | 0.... | 0.0 |
| 141 | E9 | 1170... | | 0.001 | 0.001 | 0.... | 0.0 |
| 142 | F9 | 1143... | | 0.001 | 0.001 | 0.... | 0.0 |
| 143 | G9 | 7846... | | 0.000 | 0.000 | 0.... | 0.0 |
| 144 | H9 | 6362... | | 0.000 | 0.000 | 0.... | 0.0 |
| 145 | A10 | 6829... | | 0.000 | 0.000 | 0.... | 0.0 |
| 146 | B10 | 1435... | | 0.002 | 0.002 | 0.... | 0.0 |
| 147 | C10 | 5390... | | -0.000 | -0.000 | 0.... | 0.0 |
| 148 | D10 | 1017... | | 0.001 | 0.001 | 0.... | 0.0 |
| 149 | E10 | 1476... | | 0.002 | 0.002 | 0.... | 0.0 |
| 150 | F10 | 1506... | | 0.002 | 0.002 | 0.... | 0.0 |
| 151 | G10 | 1287... | | 0.002 | 0.002 | 0.... | 0.0 |
| 152 | H10 | 2131... | | 0.004 | 0.004 | 0.... | 0.0 |
| 153 | A11 | 6026... | | -0.000 | -0.000 | 0.... | 0.0 |

Unknowns (Contd)

| Sample | Wells | Value | R | Result | MeanResult | SD | CV |
|--------|-------|---------|---|--------|------------|-------|-----|
| 154 | B11 | 4521... | | -0.000 | -0.000 | 0.... | 0.0 |
| 155 | C11 | 2447... | | -0.001 | -0.001 | 0.... | 0.0 |
| 156 | D11 | 5460... | | -0.001 | -0.001 | 0.... | 0.0 |
| 157 | E11 | 7099... | | 0.000 | 0.000 | 0.... | 0.0 |
| 158 | F11 | 6313... | | 0.000 | 0.000 | 0.... | 0.0 |
| 159 | G11 | 3674... | | -0.001 | -0.001 | 0.... | 0.0 |
| 160 | H11 | 4233... | | -0.001 | -0.001 | 0.... | 0.0 |
| 161 | A12 | 9899... | | 0.001 | 0.001 | 0.... | 0.0 |
| 162 | B12 | 6797... | | 0.000 | 0.000 | 0.... | 0.0 |
| 163 | C12 | 1207... | | 0.002 | 0.002 | 0.... | 0.0 |
| 164 | D12 | 9030... | | 0.001 | 0.001 | 0.... | 0.0 |
| 165 | E12 | 6563... | | 0.000 | 0.000 | 0.... | 0.0 |
| 166 | F12 | 6539... | | 0.000 | 0.000 | 0.... | 0.0 |
| 167 | G12 | 2449... | | -0.001 | -0.001 | 0.... | 0.0 |
| 168 | H12 | 1239... | | 0.002 | 0.002 | 0.... | 0.0 |
| 25 | A4 | 9422... | | -0.001 | -0.001 | 0.... | 0.0 |
| 26 | B4 | 1505... | | -0.001 | -0.001 | 0.... | 0.0 |
| 27 | C4 | 9518... | | -0.001 | -0.001 | 0.... | 0.0 |
| 28 | D4 | 1369... | | -0.001 | -0.001 | 0.... | 0.0 |
| 29 | E4 | 5969... | | -0.001 | -0.001 | 0.... | 0.0 |
| 30 | F4 | 6415... | | -0.001 | -0.001 | 0.... | 0.0 |
| 31 | G4 | 9216... | | -0.001 | -0.001 | 0.... | 0.0 |
| 32 | H4 | 1117... | | -0.001 | -0.001 | 0.... | 0.0 |
| 33 | A5 | 6466... | | -0.001 | -0.001 | 0.... | 0.0 |
| 34 | B5 | 1031... | | -0.001 | -0.001 | 0.... | 0.0 |
| 35 | C5 | 7969... | | -0.001 | -0.001 | 0.... | 0.0 |
| 36 | D5 | 7646... | | -0.001 | -0.001 | 0.... | 0.0 |
| 37 | E5 | 1047... | | -0.001 | -0.001 | 0.... | 0.0 |
| 38 | F5 | 4139... | | -0.002 | -0.002 | 0.... | 0.0 |
| 39 | G5 | 4584... | | -0.002 | -0.002 | 0.... | 0.0 |
| 40 | H5 | 8867... | | -0.001 | -0.001 | 0.... | 0.0 |
| 41 | A6 | 7371... | | -0.001 | -0.001 | 0.... | 0.0 |
| 42 | B6 | 7185... | | -0.001 | -0.001 | 0.... | 0.0 |
| 43 | C6 | 6197... | | -0.001 | -0.001 | 0.... | 0.0 |
| 44 | D6 | 7197... | | -0.001 | -0.001 | 0.... | 0.0 |
| 45 | E6 | 5736... | | -0.001 | -0.001 | 0.... | 0.0 |
| 46 | F6 | 4487... | | -0.002 | -0.002 | 0.... | 0.0 |
| 47 | G6 | 3922... | | -0.002 | -0.002 | 0.... | 0.0 |
| 48 | H6 | 3992... | | -0.002 | -0.002 | 0.... | 0.0 |
| 49 | A7 | 1020... | | -0.001 | -0.001 | 0.... | 0.0 |
| 50 | B7 | 1094... | | -0.001 | -0.001 | 0.... | 0.0 |
| 51 | C7 | 9937... | | -0.001 | -0.001 | 0.... | 0.0 |
| 52 | D7 | 6612... | | -0.001 | -0.001 | 0.... | 0.0 |
| 53 | E7 | 3588... | | -0.002 | -0.002 | 0.... | 0.0 |
| 54 | F7 | 3823... | | -0.002 | -0.002 | 0.... | 0.0 |
| 55 | G7 | 2813... | | -0.002 | -0.002 | 0.... | 0.0 |
| 56 | H7 | 6938... | | -0.001 | -0.001 | 0.... | 0.0 |
| 57 | A8 | 8060... | | -0.001 | -0.001 | 0.... | 0.0 |
| 58 | B8 | 5030... | | -0.002 | -0.002 | 0.... | 0.0 |
| 59 | C8 | 5308... | | -0.001 | -0.001 | 0.... | 0.0 |
| 60 | D8 | 9646... | | -0.001 | -0.001 | 0.... | 0.0 |
| 61 | E8 | 8089... | | -0.001 | -0.001 | 0.... | 0.0 |
| 62 | F8 | 8915... | | -0.001 | -0.001 | 0.... | 0.0 |
| 63 | G8 | 4099... | | -0.002 | -0.002 | 0.... | 0.0 |
| 64 | H8 | 9151... | | -0.001 | -0.001 | 0.... | 0.0 |
| 65 | A9 | 3938... | | -0.002 | -0.002 | 0.... | 0.0 |
| 66 | B9 | 1069... | | -0.001 | -0.001 | 0.... | 0.0 |

Unknowns (Contd)

| Sample | Wells | Value | R | Result | MeanResult | SD | CV |
|--------|-------|---------|---|--------|------------|-------|-----|
| 67 | C9 | 2562... | | -0.001 | -0.001 | 0.... | 0.0 |
| 68 | D9 | 6965... | | -0.001 | -0.001 | 0.... | 0.0 |
| 69 | E9 | 9566... | | -0.001 | -0.001 | 0.... | 0.0 |
| 70 | F9 | 7984... | | -0.001 | -0.001 | 0.... | 0.0 |
| 71 | G9 | 4540... | | -0.002 | -0.002 | 0.... | 0.0 |
| 72 | H9 | 6132... | | -0.001 | -0.001 | 0.... | 0.0 |
| 73 | A10 | 7280... | | -0.001 | -0.001 | 0.... | 0.0 |
| 74 | B10 | 4842... | | -0.002 | -0.002 | 0.... | 0.0 |
| 75 | C10 | 4746... | | -0.002 | -0.002 | 0.... | 0.0 |
| 76 | D10 | 3149... | | -0.002 | -0.002 | 0.... | 0.0 |
| 77 | E10 | 1033... | | -0.001 | -0.001 | 0.... | 0.0 |
| 78 | F10 | 8442... | | -0.001 | -0.001 | 0.... | 0.0 |
| 79 | G10 | 7413... | | -0.001 | -0.001 | 0.... | 0.0 |
| 80 | H10 | 1562... | | -0.001 | -0.001 | 0.... | 0.0 |
| 81 | A11 | 6501... | | -0.001 | -0.001 | 0.... | 0.0 |
| 82 | B11 | 9182... | | -0.001 | -0.001 | 0.... | 0.0 |
| 83 | C11 | 1327... | | -0.001 | -0.001 | 0.... | 0.0 |
| 84 | D11 | 1285... | | -0.001 | -0.001 | 0.... | 0.0 |
| 85 | E11 | 8825... | | -0.001 | -0.001 | 0.... | 0.0 |
| 86 | F11 | 4994... | | -0.002 | -0.002 | 0.... | 0.0 |
| 87 | G11 | 9241... | | -0.001 | -0.001 | 0.... | 0.0 |
| 88 | H11 | 1283... | | -0.001 | -0.001 | 0.... | 0.0 |
| 89 | A12 | 6882... | | -0.001 | -0.001 | 0.... | 0.0 |
| 90 | B12 | 8652... | | -0.001 | -0.001 | 0.... | 0.0 |
| 91 | C12 | 1426... | | -0.001 | -0.001 | 0.... | 0.0 |
| 92 | D12 | 2762... | | -0.001 | -0.001 | 0.... | 0.0 |
| 93 | E12 | 8495... | | -0.001 | -0.001 | 0.... | 0.0 |
| 94 | F12 | 7575... | | -0.001 | -0.001 | 0.... | 0.0 |
| 95 | G12 | 3809... | | -0.002 | -0.002 | 0.... | 0.0 |
| 96 | H12 | 8558... | | -0.001 | -0.001 | 0.... | 0.0 |

R - Outside standard range

Unk_Dilution

| Sample | Wells | Value | R | Result | MeanResult | SD | CV | Dilution | AdjResult |
|--------|-------|-------|---|--------|------------|----|----|----------|-----------|
|--------|-------|-------|---|--------|------------|----|----|----------|-----------|

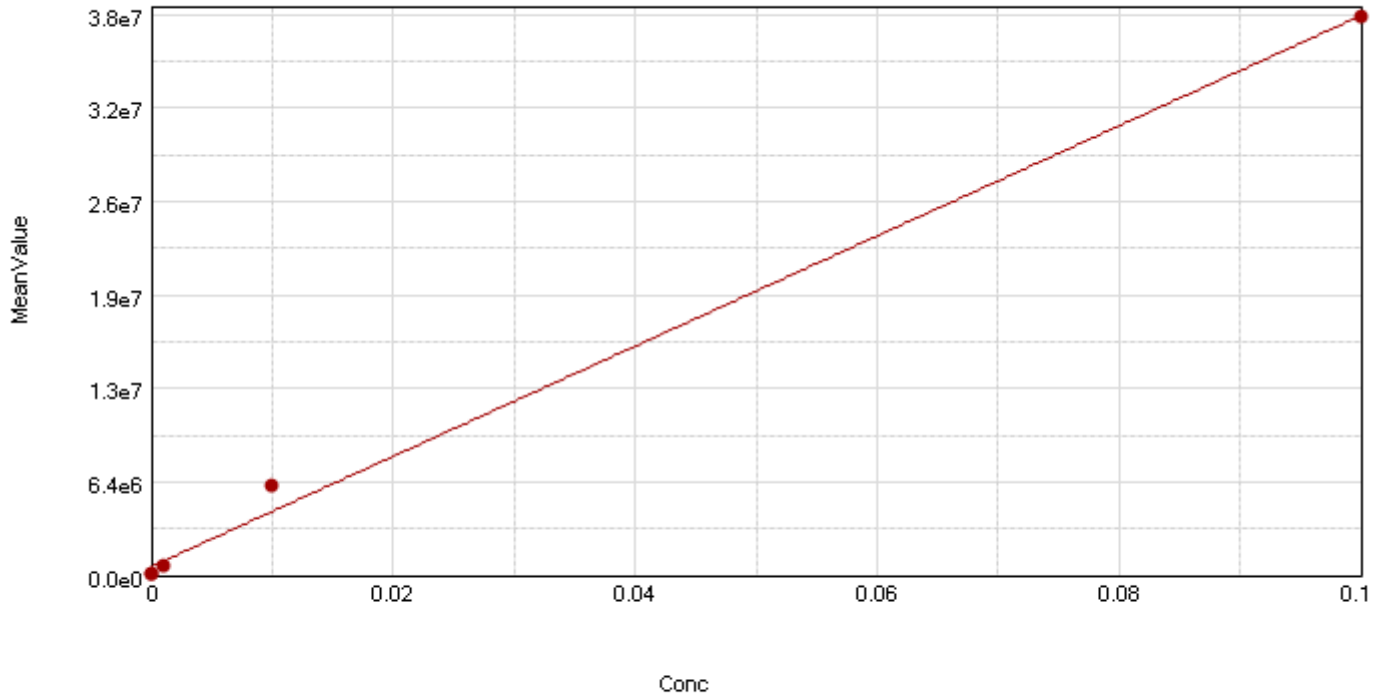
R - Outside standard range

Mean Adjusted Result:

Control

| Sample | Wells | Sample# | Values | MeanValue |
|--------|-------|---------|--------|-----------|
|--------|-------|---------|--------|-----------|

StandardCurve



● Std (Standards: MeanVal... vs Conc)

Curve Fit Results ▼