

**Dose Response Curve (Linear)**

**2.5**

**2**

**1.5**

**1**

**0.5**

**0**

**Concentration (Dose)**

**Fitted Response Curve Upper Confidence Bound Standards**

**OD (Response)**

**300**

**10**

**600**

**900**

**100**

**1200**

**1500**

**1800**

**1000**

**2100**

**2400**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assay ID** | **Kit Target** | **Kit Product Code** | **Created Date** | **Regression Algorithm** |
| **HCY161119** | **HCY** | **HCY161119** | **2019-11-16 01:18:06** | **4-Parameter Logistic Regression** |

» Find out more about the formulas ([http://elisaanalysis.com/knowledge-base/elisa-software-4-parameter-logistic-4pl-nonlinear-regression)](http://elisaanalysis.com/knowledge-base/elisa-software-4-parameter-logistic-4pl-nonlinear-regression%29)

Regression Formula: Inverse Formula:

Where:

y = Response Value eg. OD

x = Dose Value eg. Concentration

and the constants/parameters are as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **a** | **b** | **c** | **d** |
| **6.8746887** | **0.3698343** | **1.3292646** | **-0.5987634** |

R2 value: 0.9017621

**Dose Response Curve (Logarithmic)**

**2.5**

**2**

**1.5**

**1**

**0.5**

**0**

**Concentration (Dose)**

**Fitted Response Curve Upper Confidence Bound Standards**

**OD (Response)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Well Category****Unknown** | **Well****U1** | **Well Position****H1** | **Well Optical Density****0.811** | **Mean Optical Density****0.811** | **Mean Concentration****68.673** | **Confidence Interval****-494.194 - 631.54** |
| **Unknown** | **U2** | **H2** | **0.124** | **0.124** | **558.933** | **-5192.726 - 6310.591** |
| **Unknown** | **U3** | **A3** | **0.096** | **0.096** | **628.951** | **-5935.33 - 7193.232** |
| **Unknown** | **U4** | **B3** | **0.12** | **0.12** | **568.293** | **-5291.313 - 6427.898** |
| **Unknown** | **U5** | **C3** | **0.097** | **0.097** | **626.26** | **-5906.577 - 7159.097** |
| **Unknown** | **U6** | **D3** | **0.065** | **0.065** | **720.405** | **-6921.733 - 8362.542** |
| **Unknown** | **U7** | **E3** | **0.115** | **0.115** | **580.281** | **-5417.901 - 6578.462** |
| **Unknown** | **U8** | **F3** | **0.093** | **0.093** | **637.116** | **-6022.659 - 7296.89** |
| **Unknown** | **U9** | **G3** | **0.141** | **0.141** | **521.312** | **-4798.728 - 5841.353** |
| **Unknown** | **U10** | **H3** | **0.206** | **0.206** | **404.4** | **-3599.741 - 4408.541** |
| **Unknown** | **U11** | **A4** | **0.552** | **0.552** | **133.131** | **-1029.713 - 1295.976** |
| **Unknown** | **U12** | **B4** | **0.174** | **0.174** | **457.172** | **-4135.866 - 5050.21** |
| **Unknown** | **U13** | **C4** | **0.355** | **0.355** | **240.326** | **-1999.312 - 2479.965** |
| **Unknown** | **U14** | **D4** | **0.179** | **0.179** | **448.363** | **-4045.762 - 4942.487** |
| **Unknown** | **U15** | **E4** | **0.121** | **0.121** | **565.934** | **-5266.446 - 6398.313** |
| **Unknown** | **U16** | **F4** | **0.12** | **0.12** | **568.293** | **-5291.313 - 6427.898** |
| **Unknown** | **U17** | **G4** | **0.137** | **0.137** | **529.861** | **-4887.937 - 5947.66** |
| **Unknown** | **U18** | **H4** | **0.309** | **0.309** | **279.966** | **-2375.23 - 2935.161** |
| **Unknown** | **U19** | **A5** | **0.203** | **0.203** | **409.001** | **-3646.131 - 4464.134** |
| **Unknown** | **U20** | **B5** | **0.165** | **0.165** | **473.601** | **-4304.53 - 5251.731** |
| **Unknown** | **U21** | **C5** | **0.24** | **0.24** | **356.628** | **-3122.509 - 3835.766** |
| **Unknown** | **U22** | **D5** | **0.18** | **0.18** | **446.627** | **-4028.039 - 4921.294** |
| **Unknown** | **U23** | **E5** | **0.184** | **0.184** | **439.772** | **-3958.119 - 4837.662** |
| **Unknown** | **U24** | **F5** | **0.107** | **0.107** | **600.155** | **-5628.516 - 6828.826** |
| **Unknown** | **U25** | **G5** | **0.149** | **0.149** | **504.744** | **-4626.393 - 5635.881** |
| **Unknown** | **U26** | **H5** | **0.132** | **0.132** | **540.805** | **-5002.416 - 6084.026** |
| **Unknown** | **U27** | **A6** | **0.14** | **0.14** | **523.433** | **-4820.836 - 5867.701** |
| **Unknown** | **U28** | **B6** | **0.166** | **0.166** | **471.738** | **-4285.366 - 5228.842** |
| **Unknown** | **U29** | **C6** | **0.068** | **0.068** | **710.826** | **-6817.61 - 8239.263** |
| **Unknown** | **U30** | **D6** | **0.645** | **0.645** | **103.661** | **-779.051 - 986.374** |
| **Unknown** | **U31** | **E6** | **0.084** | **0.084** | **662.451** | **-6294.594 - 7619.496** |
| **Unknown** | **U32** | **F6** | **0.231** | **0.231** | **368.533** | **-3240.664 - 3977.729** |
| **Unknown** | **U33** | **G6** | **0.1** | **0.1** | **618.276** | **-5821.368 - 7057.921** |
| **Unknown** | **U34** | **H6** | **0.424** | **0.424** | **193.324** | **-1564.671 - 1951.319** |
| **Unknown** | **U35** | **A7** | **0.088** | **0.088** | **651.032** | **-6171.854 - 7473.918** |
| **Unknown** | **U36** | **B7** | **0.165** | **0.165** | **473.601** | **-4304.53 - 5251.731** |
| **Unknown** | **U37** | **C7** | **0.308** | **0.308** | **280.917** | **-2384.346 - 2946.18** |
| **Unknown** | **U38** | **D7** | **0.102** | **0.102** | **613.027** | **-5765.426 - 6991.479** |
| **Unknown** | **U39** | **E7** | **0.332** | **0.332** | **259.18** | **-2177.127 - 2695.487** |
| **Unknown** | **U40** | **F7** | **0.899** | **0.899** | **56.042** | **-395.637 - 507.722** |
| **Unknown** | **U41** | **G7** | **0.143** | **0.143** | **517.105** | **-4754.895 - 5789.104** |
| **Unknown** | **U42** | **H7** | **0.213** | **0.213** | **393.919** | **-3494.355 - 4282.194** |

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| **Unknown** | **U43** | **A8** | **0.703** | **0.703** | **89.353** | **-660.683 - 839.39** |
| **Unknown** | **U44** | **B8** | **0.127** | **0.127** | **552.044** | **-5120.305 - 6224.392** |
| **Unknown** | **U45** | **C8** | **0.131** | **0.131** | **543.029** | **-5025.717 - 6111.775** |
| **Unknown** | **U46** | **D8** | **0.2** | **0.2** | **413.671** | **-3693.277 - 4520.618** |
| **Unknown** | **U47** | **E8** | **0.111** | **0.111** | **590.109** | **-5521.939 - 6702.157** |
| **Unknown** | **U48** | **F8** | **0.211** | **0.211** | **396.878** | **-3524.064 - 4317.82** |
| **Unknown** | **U49** | **G8** | **0.173** | **0.173** | **458.961** | **-4154.19 - 5072.111** |
| **Unknown** | **U50** | **H8** | **0.222** | **0.222** | **380.954** | **-3364.501 - 4126.408** |
| **Unknown** | **U51** | **A9** | **0.059** | **0.059** | **740.072** | **-7136.099 - 8616.243** |
| **Unknown** | **U52** | **B9** | **0.095** | **0.095** | **631.658** | **-5964.26 - 7227.575** |
| **Unknown** | **U53** | **C9** | **0.222** | **0.222** | **380.954** | **-3364.501 - 4126.408** |
| **Unknown** | **U54** | **D9** | **0.278** | **0.278** | **311.487** | **-2679.478 - 3302.451** |
| **Unknown** | **U55** | **E9** | **0.154** | **0.154** | **494.734** | **-4522.642 - 5512.11** |
| **Unknown** | **U56** | **F9** | **0.152** | **0.152** | **498.707** | **-4563.787 - 5561.2** |
| **Unknown** | **U57** | **G9** | **0.11** | **0.11** | **592.6** | **-5548.342 - 6733.542** |
| **Unknown** | **U58** | **H9** | **0.076** | **0.076** | **686.083** | **-6549.492 - 7921.659** |
| **Unknown** | **U59** | **A10** | **0.124** | **0.124** | **558.933** | **-5192.726 - 6310.591** |
| **Unknown** | **U60** | **B10** | **0.227** | **0.227** | **373.988** | **-3294.982 - 4042.957** |
| **Unknown** | **U61** | **C10** | **0.227** | **0.227** | **373.988** | **-3294.982 - 4042.957** |
| **Unknown** | **U62** | **D10** | **0.19** | **0.19** | **429.741** | **-3856.082 - 4715.565** |
| **Unknown** | **U63** | **E10** | **0.097** | **0.097** | **626.26** | **-5906.577 - 7159.097** |
| **Unknown** | **U64** | **F10** | **0.083** | **0.083** | **665.346** | **-6325.761 - 7656.454** |
| **Unknown** | **U65** | **G10** | **0.114** | **0.114** | **582.718** | **-5443.676 - 6609.112** |
| **Unknown** | **U66** | **H10** | **0.163** | **0.163** | **477.355** | **-4343.182 - 5297.893** |
| **Unknown** | **U67** | **A11** | **0.1** | **0.1** | **618.276** | **-5821.368 - 7057.921** |
| **Unknown** | **U68** | **B11** | **0.145** | **0.145** | **512.941** | **-4711.566 - 5737.448** |
| **Unknown** | **U69** | **C11** | **0.139** | **0.139** | **525.564** | **-4843.073 - 5894.202** |
| **Unknown** | **U70** | **D11** | **0.187** | **0.187** | **434.719** | **-3906.681 - 4776.119** |
| **Unknown** | **U71** | **E11** | **0.132** | **0.132** | **540.805** | **-5002.416 - 6084.026** |
| **Unknown** | **U72** | **F11** | **0.142** | **0.142** | **519.203** | **-4776.748 - 5815.154** |
| **Unknown** | **U73** | **G11** | **0.334** | **0.334** | **257.467** | **-2160.897 - 2675.832** |
| **Unknown** | **U74** | **H11** | **0.078** | **0.078** | **680.074** | **-6484.56 - 7844.707** |
| **Unknown** | **U75** | **A12** | **0.086** | **0.086** | **656.709** | **-6232.842 - 7546.26** |
| **Unknown** | **U76** | **B12** | **0.12** | **0.12** | **568.293** | **-5291.313 - 6427.898** |
| **Unknown** | **U77** | **C12** | **0.103** | **0.103** | **610.424** | **-5737.71 - 6958.557** |
| **Unknown** | **U78** | **D12** | **0** | **0** | **976.684** | **-9769.084 -****11722.452** |
| **Unknown** | **U79** | **E12** | **0** | **0** | **976.684** | **-9769.084 -****11722.452** |
| **Unknown** | **U80** | **F12** | **0** | **0** | **976.684** | **-9769.084 -****11722.452** |
| **Unknown** | **U81** | **G12** | **0** | **0** | **976.684** | **-9769.084 -****11722.452** |
| **Unknown** | **U82** | **H12** | **0** | **0** | **976.684** | **-9769.084 -****11722.452** |
| **Standard** | **S1** | **A1,A2** | **0.283,0.306** | **0.295** | **250** | **N/A** |

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| **Standard** | **S2** | **B1,B2** | **0.623,0.539** | **0.581** | **125** | **N/A** |
| **Standard** | **S3** | **C1,C2** | **1.021,0.779** | **0.9** | **62.5** | **N/A** |
| **Standard** | **S4** | **D1,D2** | **1.505,1.21** | **1.358** | **31.25** | **N/A** |
| **Standard** | **S5** | **E1,E2** | **1.275,1.173** | **1.224** | **15.625** | **N/A** |
| **Standard** | **S6** | **F1,F2** | **2.03,2.142** | **2.086** | **7.813** | **N/A** |