

PRECISION**Intra-assay Precision (Precision within an assay): CV%<8%**

Three samples of known concentration were tested twenty times on one plate to assess.

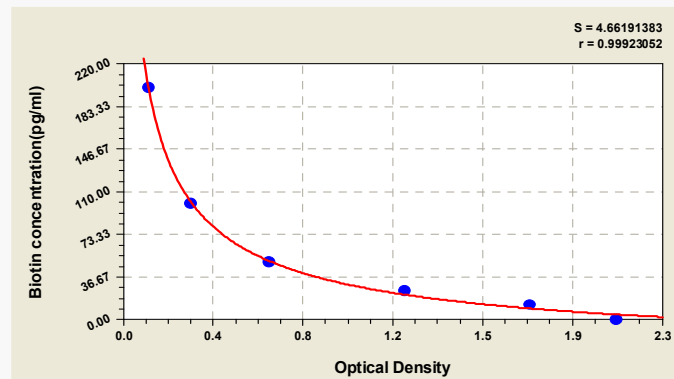
Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

	Intra-Assay Precision			Inter-Assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	20	20	20
Mean(pg/ml)	24.467	29.384	23.732	25.722	25.687	25.830
SD	0.066	0.075	0.069	0.083	0.081	0.086
CV(%)	5.856	7.538	6.021	7.608	7.459	7.948

TYPICAL DATA

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average
200	0.125	0.108	0.117
100	0.280	0.315	0.298
50	0.658	0.605	0.632
25	1.202	1.224	1.213
12.5	1.640	1.847	1.744
0	2.267	2.166	2.111

LOD

4.986 pg/ml

LINEARITY

To assess the linearity of the assay, samples were spiked with high concentrations of Biotin in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Human Serum(n=4)
1:20	Average %	93
	Range %	83-101
1:40	Average %	86
	Range %	82-104
1:80	Average %	99
	Range %	96-119
1:160	Average %	94
	Range %	88-108

	Sample	GoatSerum(n=4)
1:20	Average %	86
	Range %	82-104
1:40	Average %	97
	Range %	96-101
1:80	Average %	94
	Range %	88-108
1:160	Average %	96
	Range %	85-107

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	Sample	BovineSerum(n=4)
1:20	Average %	91
	Range %	84-101
1:40	Average %	86
	Range %	82-96
1:80	Average %	97
	Range %	91-104
1:160	Average %	94
	Range %	88-109

	Sample	Duck Serum(n=4)
1:20	Average %	94
	Range %	88-98
1:40	Average %	85
	Range %	82-93
1:80	Average %	97
	Range %	89-104
1:160	Average %	94
	Range %	88-101

	Sample	Horse Serum(n=4)
1:20	Average %	91
	Range %	81-101
1:40	Average %	86
	Range %	82-104
1:80	Average %	97
	Range %	88-115
1:160	Average %	94
	Range %	88-107

	Sample	Rabbit Serum(n=4)
1:20	Average %	95
	Range %	87-99
1:40	Average %	86
	Range %	82-96
1:80	Average %	97
	Range %	90-101
1:160	Average %	98
	Range %	88-102

	Sample	HamsterSerum(n=4)
1:20	Average %	91
	Range %	83-101
1:40	Average %	86
	Range %	82-104
1:80	Average %	97
	Range %	89-116
1:160	Average %	94
	Range %	88-105

	Sample	Guinea PigSerum(n=4)
1:20	Average %	93
	Range %	82-105
1:40	Average %	86
	Range %	82-95
1:80	Average %	98
	Range %	89-106
1:160	Average %	96
	Range %	88-108

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	Sample	Rat Serum(n=4)
1:80	Average %	91
	Range %	89-101
1:160	Average %	86
	Range %	82-104
1:320	Average %	97
	Range %	89-118
1:640	Average %	94
	Range %	88-103

	Sample	Mouse Serum(n=4)
1:40	Average %	93
	Range %	90-101
1:80	Average %	86
	Range %	82-104
1:160	Average %	97
	Range %	89-117
1:320	Average %	94
	Range %	88-104

	Sample	Pig Serum(n=4)
1:80	Average %	91
	Range %	80-106
1:160	Average %	86
	Range %	82-104
1:320	Average %	97
	Range %	89-115
1:640	Average %	94
	Range %	88-101

	Sample	SheepSerum(n=4)
1:40	Average %	93
	Range %	83-101
1:80	Average %	86
	Range %	82-104
1:160	Average %	99
	Range %	96-119
1:320	Average %	94
	Range %	88-108

	Sample	DogSerum(n=4)
1:20	Average %	95
	Range %	83-112
1:40	Average %	87
	Range %	82-102
1:80	Average %	99
	Range %	96-112
1:160	Average %	91
	Range %	88-109

	Sample	HorseSerum(n=4)
1:200	Average %	93
	Range %	83-101
1:400	Average %	86
	Range %	82-104
1:800	Average %	97
	Range %	92-110
1:1600	Average %	94
	Range %	88-108