

# Evaluation of Linearity

Report Made: 21st July 2020

Code No. 27751

Product Name: Human Tenascin-C Large (FNIII-C) Assay Kit - IBL

Evaluation: Linearity with optimal dilution ratio for serum samples

Samples: Human Serum (N=3)

## 【Result】

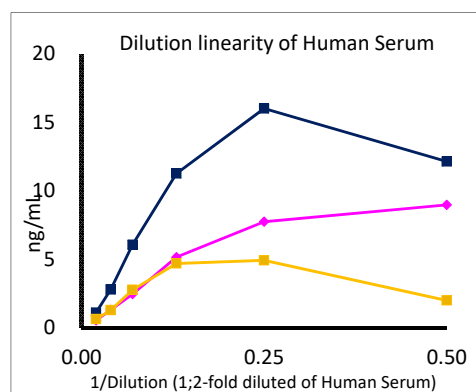
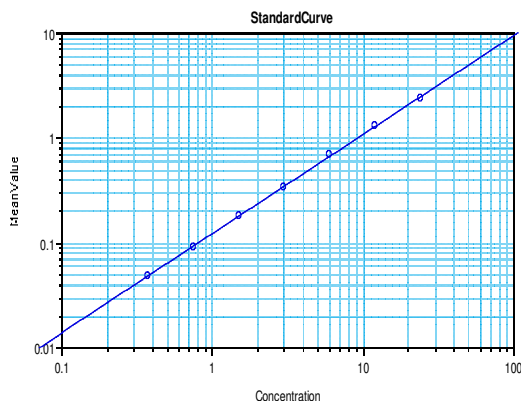
The satisfied linearity was obtained with dilution ratio x8, x16 and x32 although it was poor with dilution ratio x2, x4 and x8 for these 3 samples. The data shown on the datasheet (e.g. linearity (x2, x4 and x8) and recovery test with x4 dilution) is reference only. We recommend to evaluate the dilution ratio depending on actual samples to be measured but more than x8 is recommended for evaluation.

## Standard Curve

Concentration	Found Conc.	Wells	Values	Mean Value	Std.Dev.	CV%
24.00	23.12	A1	2.446	2.376	0.100	4.2
		A2	2.305			
12.00	12.18	B1	1.317	1.296	0.029	2.2
		B2	1.276			
6.00	6.28	C1	0.708	0.693	0.021	3.1
		C2	0.678			
3.00	2.99	D1	0.364	0.344	0.028	8.0
		D2	0.325			
1.50	1.51	E1	0.170	0.180	0.015	8.3
		E2	0.191			
0.75	0.72	F1	0.093	0.090	0.004	4.5
		F2	0.087			
0.38	0.38	G1	0.055	0.049	0.009	18.7
		G2	0.042			

## Result with Human Serum Sample (N=3)

Sample	Dilute	OD450	Measurement Value (ng/mL)	Corresponding Value (ng/mL)	(1:X)
Human Serum (1)	2	1.294	12.15	24.30	0.50
	4	1.680	16.02	64.07	0.25
	8	1.205	11.27	90.16	0.13
	16	0.672	6.07	97.10	0.07
	32	0.323	2.80	89.54	0.04
	64	0.136	1.11	71.30	0.02
Human Serum (2)	2	0.972	8.98	17.96	0.50
	4	0.846	7.75	31.01	0.25
	8	0.576	5.16	41.26	0.13
	16	0.287	2.47	39.44	0.07
	32	0.157	1.30	41.73	0.04
	64	0.068	0.53	34.18	0.02
Human Serum (3)	2	0.235	2.00	4.00	0.50
	4	0.552	4.93	19.71	0.25
	8	0.527	4.70	37.57	0.13
	16	0.320	2.77	44.26	0.07
	32	0.155	1.29	41.15	0.04
	64	0.079	0.63	40.06	0.02





Immuno-Biological Laboratories Co., Ltd.

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 Code No. 27751  
 Product Name: Human Tenascin-C Large (FNIII-C) Assay Kit - IBL  
 Evaluation: Linearity with optimal dilution ratio for heparin-plasma samples  
 Samples: Human Heparin-Plasma Sample (N=1)

### 【Result】

The satisfied linearity was obtained with dilution ratio x8, x16 and x32 although it was poor with dilution ratio x2, x4 and x8 for these 3 samples. The data shown on the datasheet (e.g. linearity (x2, x4 and x8) and recovery test with x4 dilution) is reference only. We recommend to evaluate the dilution ratio depending on actual samples to be measured but more than x8 is recommended for evaluation.

### Result with Human Heparin-Plasma Sample (N=1)

Sample	Dilute	OD450	Measurement Value	Corresponding Value	(1:X)
Human Heparin-Plasma	2	1.381	16.78	33.56	0.50
	4	1.118	13.44	53.76	0.25
	8	0.596	6.94	55.51	0.13
	16	0.354	4.01	64.13	0.07
	32	0.207	2.30	73.44	0.04
	64	0.114	1.21	77.63	0.02

