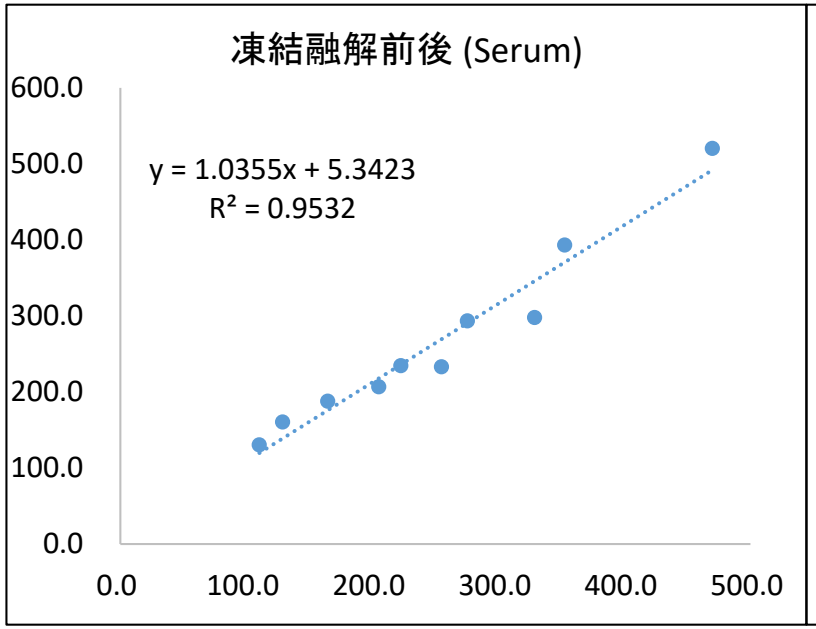
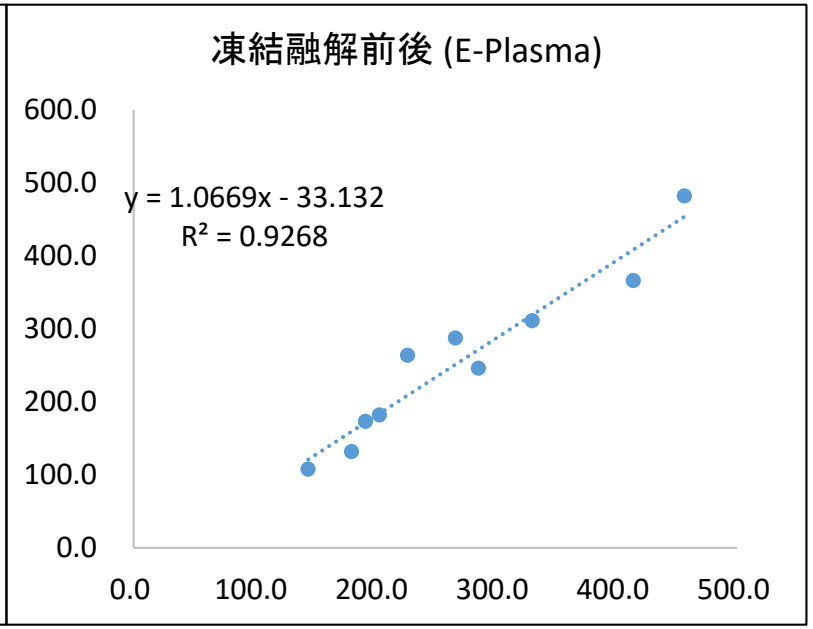
検体安定性の検討-凍結融解

((pg/mL)

	凍結融解0回	凍結融解1回	1回/0回
Serum1	187.8	164.6	87.7%
Serum2	160.3	128.8	80.4%
Serum3	234.4	222.7	95.0%
Serum4	206.6	205.2	99.3%
Serum5	297.7	328.9	110.5%
Serum6	232.9	254.9	109.4%
Serum7	293.3	275.5	93.9%
Serum8	520.1	470.0	90.4%
Serum9	393.1	352.7	89.7%
Serum10	130.3	110.4	84.7%
E-Plasma1	173.3	192.2	110.9%
E-Plasma2	131.7	180.6	137.2%
E-Plasma3	246.1	285.9	116.2%
E-Plasma4	182.0	203.7	112.0%
E-Plasma5	311.0	330.4	106.2%
E-Plasma6	263.7	227.1	86.1%
E-Plasma7	287.3	266.7	92.8%
E-Plasma8	482.1	456.4	94.7%
E-Plasma9	366.2	414.2	113.1%
E-Plasma10	107.6	144.6	134.4%

*E-Plasma =EDTA-Plasma





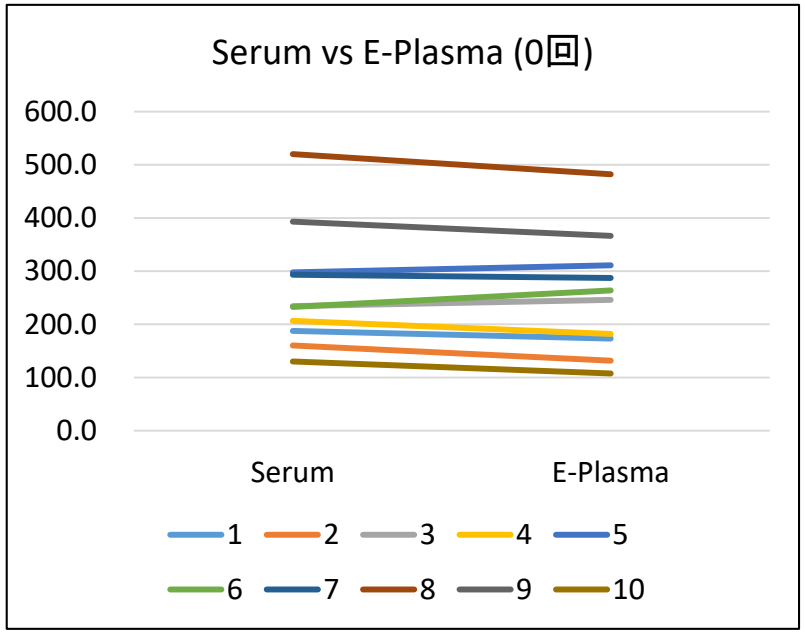
凍結融解前後での相関性は血清のほうが良好。

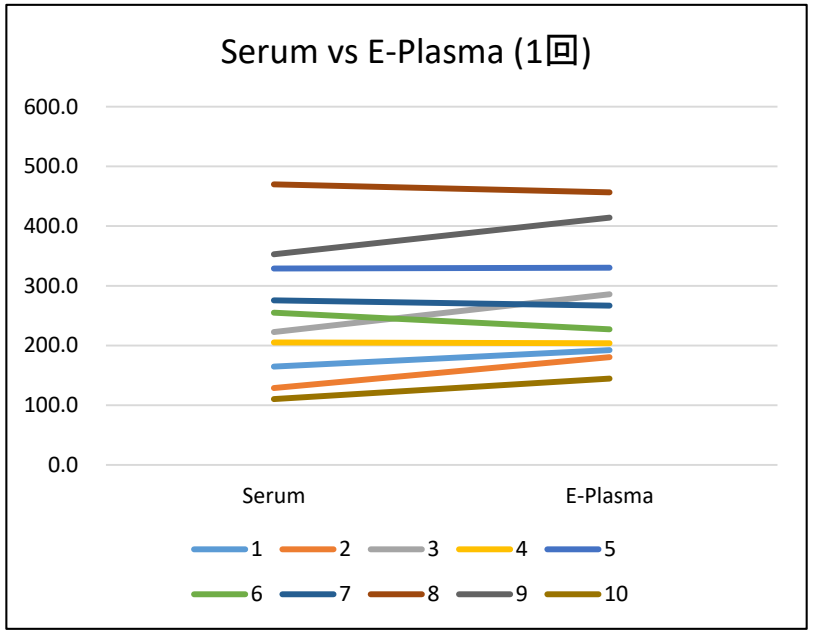
検体安定性の検討-凍結融解

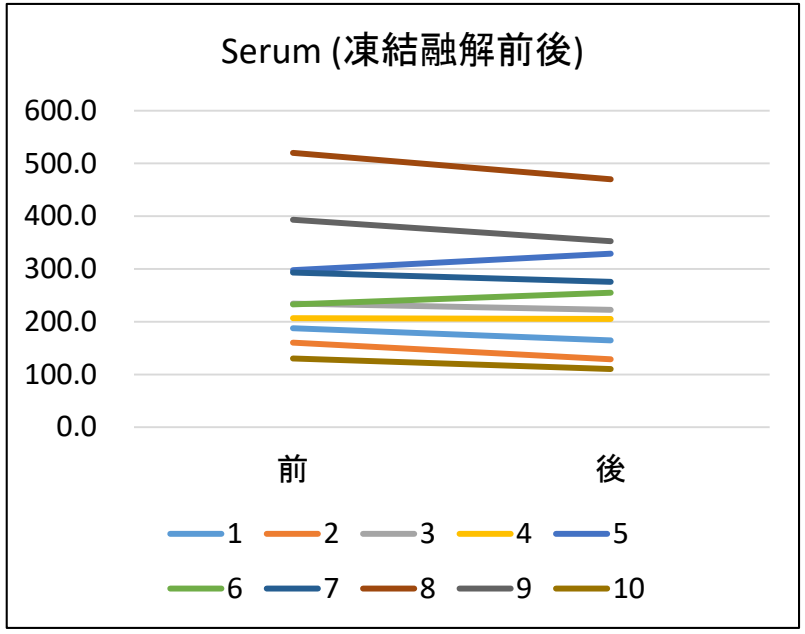
((pg/mL)

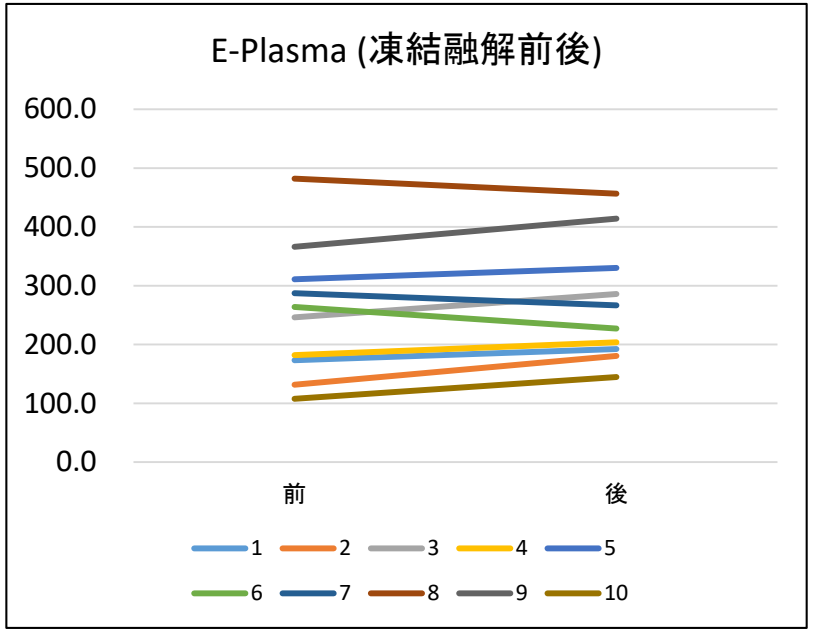
	凍結融解0回	凍結融解1回	1回/0回
Serum1	187.8	164.6	87.7%
Serum2	160.3	128.8	80.4%
Serum3	234.4	222.7	95.0%
Serum4	206.6	205.2	99.3%
Serum5	297.7	328.9	110.5%
Serum6	232.9	254.9	109.4%
Serum7	293.3	275.5	93.9%
Serum8	520.1	470.0	90.4%
Serum9	393.1	352.7	89.7%
Serum10	130.3	110.4	84.7%
E-Plasma1	173.3	192.2	110.9%
E-Plasma2	131.7	180.6	137.2%
E-Plasma3	246.1	285.9	116.2%
E-Plasma4	182.0	203.7	112.0%
E-Plasma5	311.0	330.4	106.2%
E-Plasma6	263.7	227.1	86.1%
E-Plasma7	287.3	266.7	92.8%
E-Plasma8	482.1	456.4	94.7%
E-Plasma9	366.2	414.2	113.1%
E-Plasma10	107.6	144.6	134.4%

*E-Plasma =EDTA-Plasma







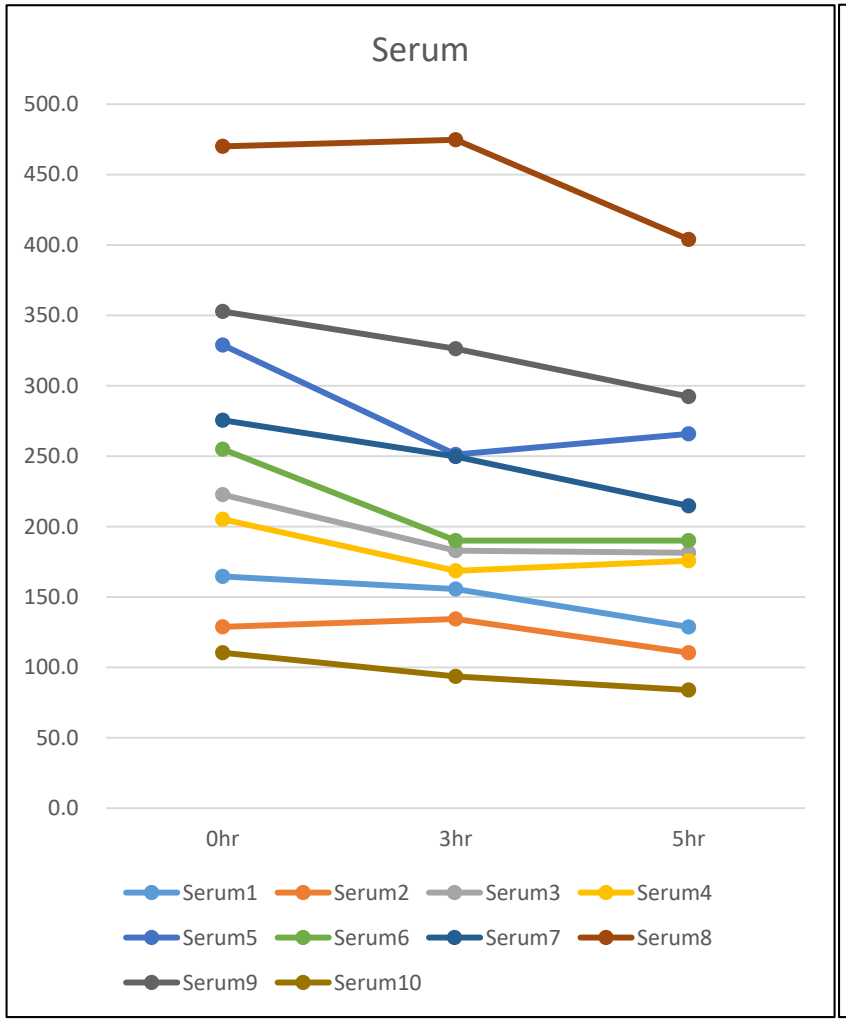


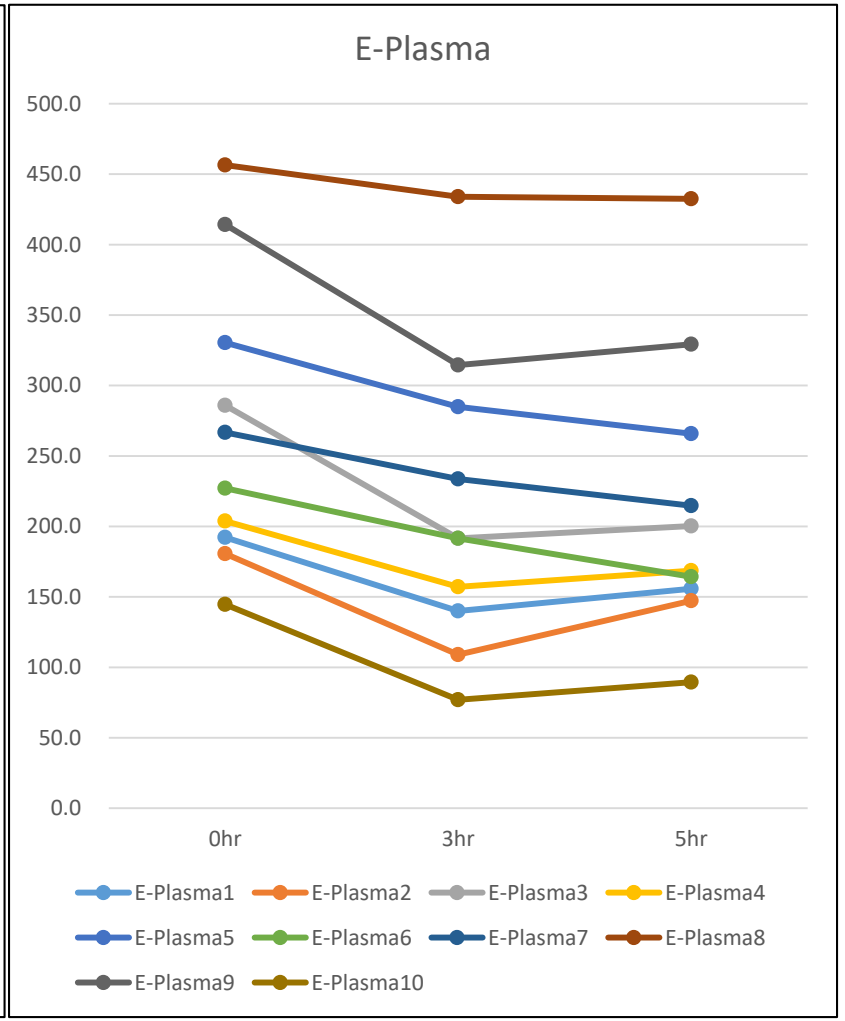
凍結融解により血清、EDTA血漿ともに多少ではあるがバラツキが見られる。

検体安定性の検討
(室温放置での劣化比較)

((pg/mL)

	0hr	3hr	5hr
Serum1	164.6	155.7	128.7
Serum2	128.8	134.4	110.4
Serum3	222.7	182.9	181.5
Serum4	205.2	168.5	175.7
Serum5	328.9	251.1	265.8
Serum6	254.9	190.1	190.1
Serum7	275.5	249.7	214.7
Serum8	470.0	474.7	403.9
Serum9	352.7	326.3	292.3
Serum10	110.4	93.6	83.9
E−Plasma1	192.2	140.0	155.7
E−Plasma2	180.6	109.0	147.2
E−Plasma3	285.9	191.5	200.2
E−Plasma4	203.7	157.1	168.5
E−Plasma5	330.4	284.9	265.8
E−Plasma6	227.1	191.5	164.2
E−Plasma7	266.7	233.6	214.7
E−Plasma8	456.4	433.9	432.4
E−Plasma9	414.2	314.4	329.3
E−Plasma10	144.6	77.0	89.4





*E-Plasma =EDTA-Plasma

血清、EDTA血漿ともに3hrで大きく劣化が認められる。過去の劣化検体を参考に、EDTA血漿は3hr程度で劣化が緩やかになるが、血清はその後も劣化が進行していくことが示唆される。
*劣化検体の血清はEDTA血漿の1/2程度