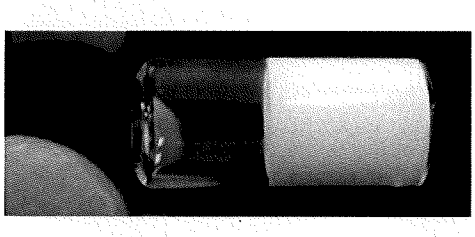
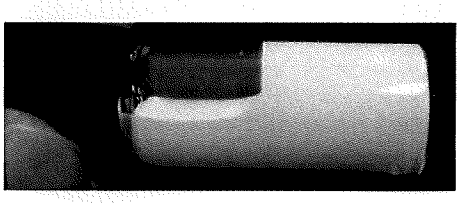
[Fig.1]



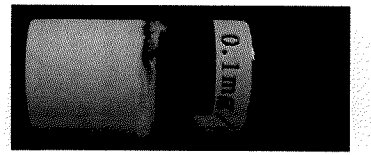
[Fig.2]



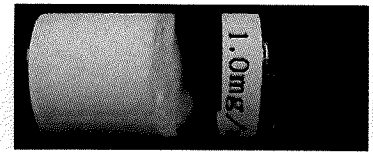
[Fig.3]



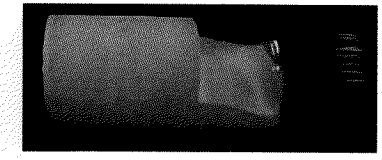
[Fig.4a]



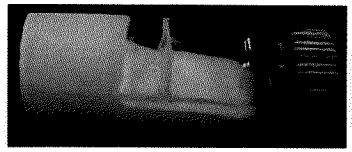
Povidone K17: 0.1 mg/mL



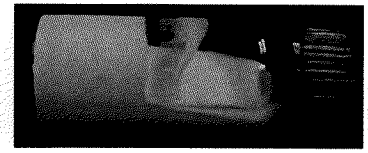
1.0 mg/mL



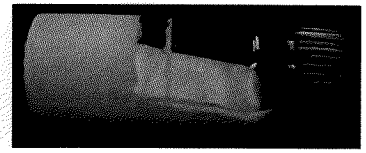
4.0 mg/mL



Povidone K17: 10.0 mg/mL

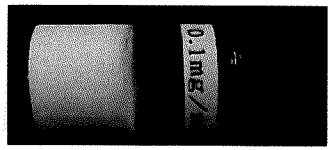


50.0 mg/mL

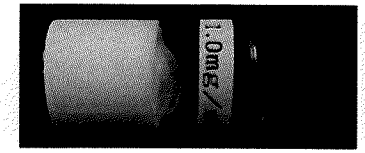


100 mg/mL

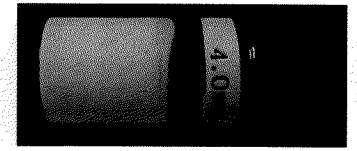
[Fig. 4b]



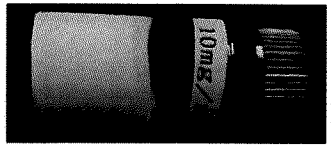
Povidone K17: 0.1 mg/mL



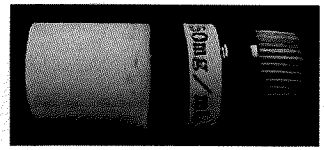
1.0 mg/mL



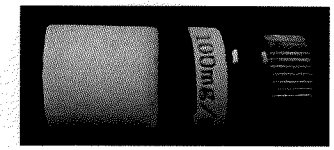
4.0 mg/mL



Povidone K17: 10.0 mg/mL

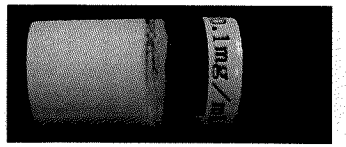


50.0 mg/mL

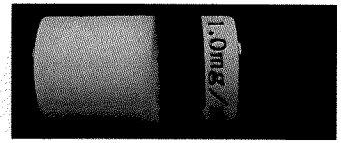


100 mg/mL

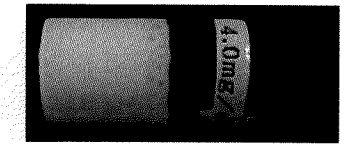
[Fig. 4c]



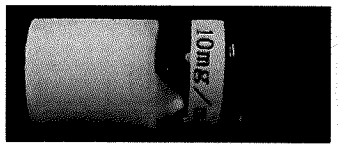
Povidone K17: 0.1 mg/mL



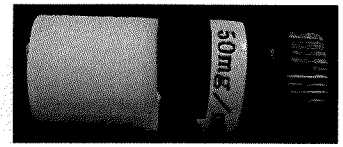
1.0 mg/mL



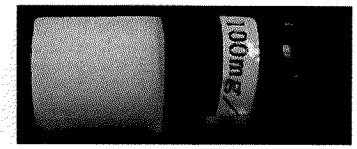
4.0 mg/mL



Povidone K17: 10.0 mg/mL

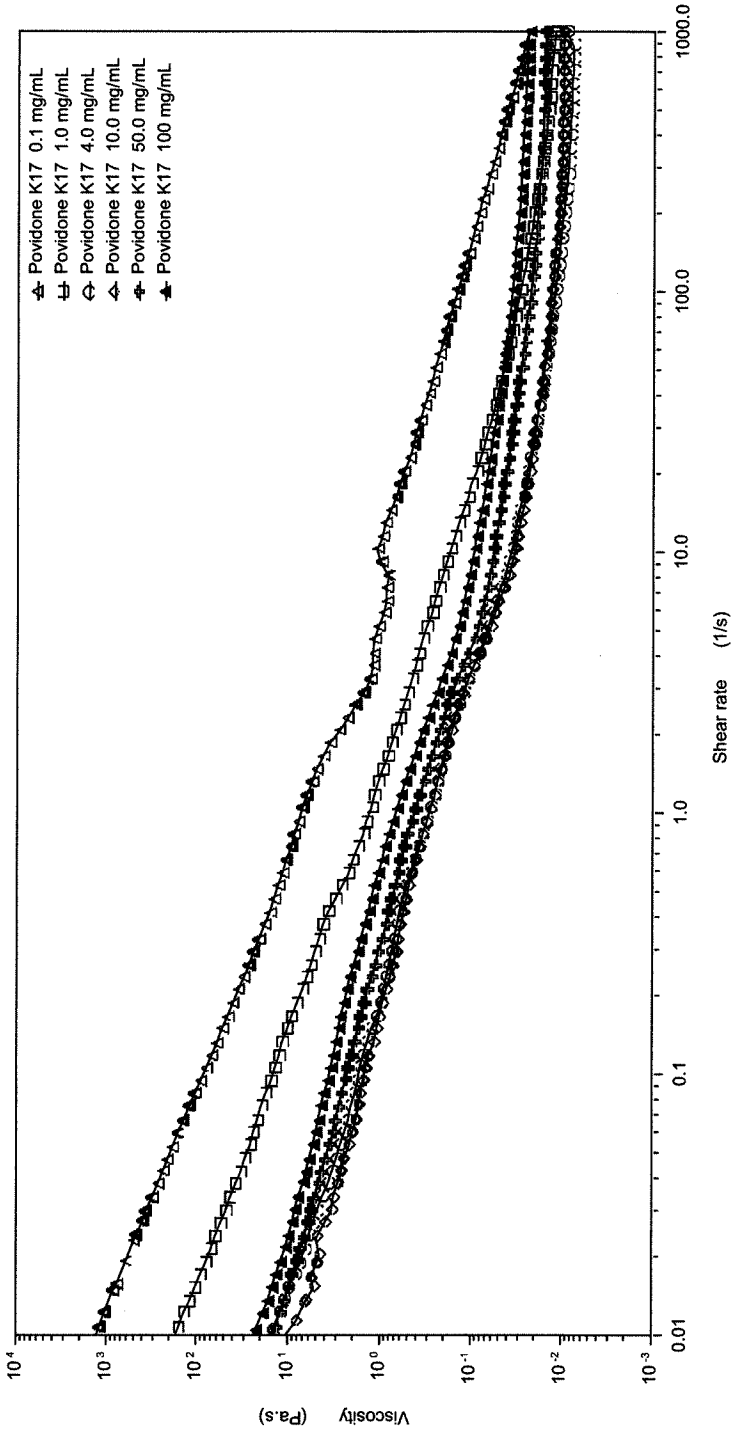


50.0 mg/mL

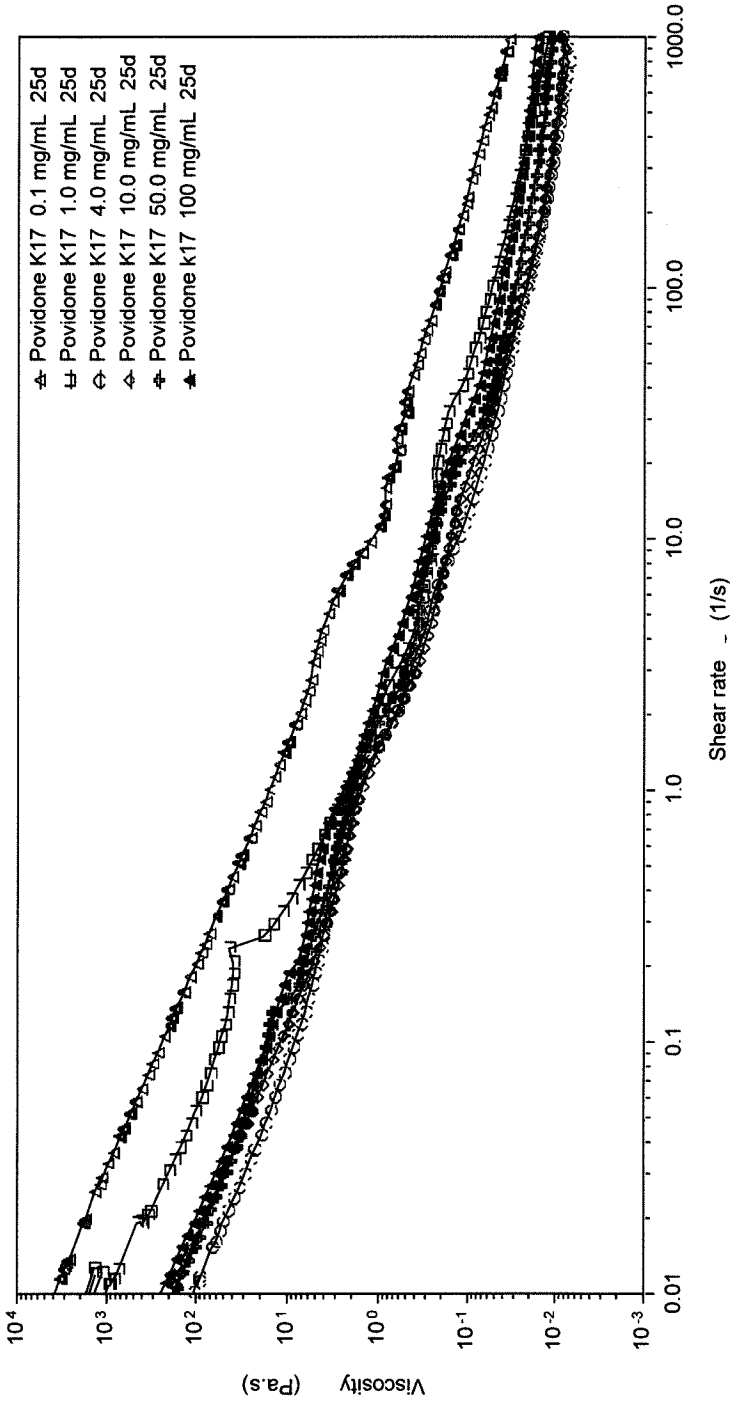


100 mg/mL

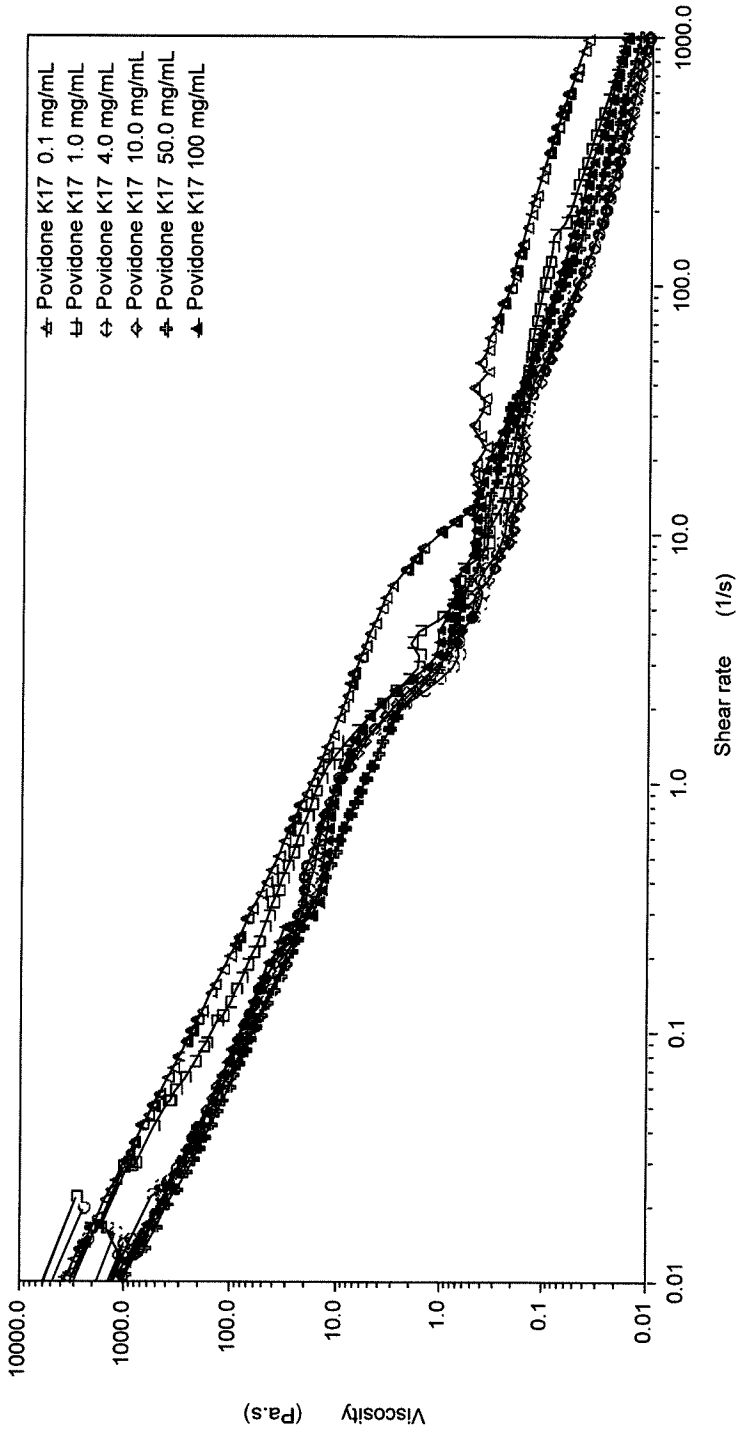
[Fig. 5a]


Povidone K17 0.1 mg/mL
Povidone K17 1.0 mg/mL
Povidone K17 4.0 mg/mL
Povidone K17 10.0 mg/mL
Povidone K17 50.0 mg/mL
Povidone K17 100 mg/mL
Viscosity (Pa.s)
Shear rate (1/s)
10^4
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
0.01
0.1
1.0
10.0
100.0
1000.0

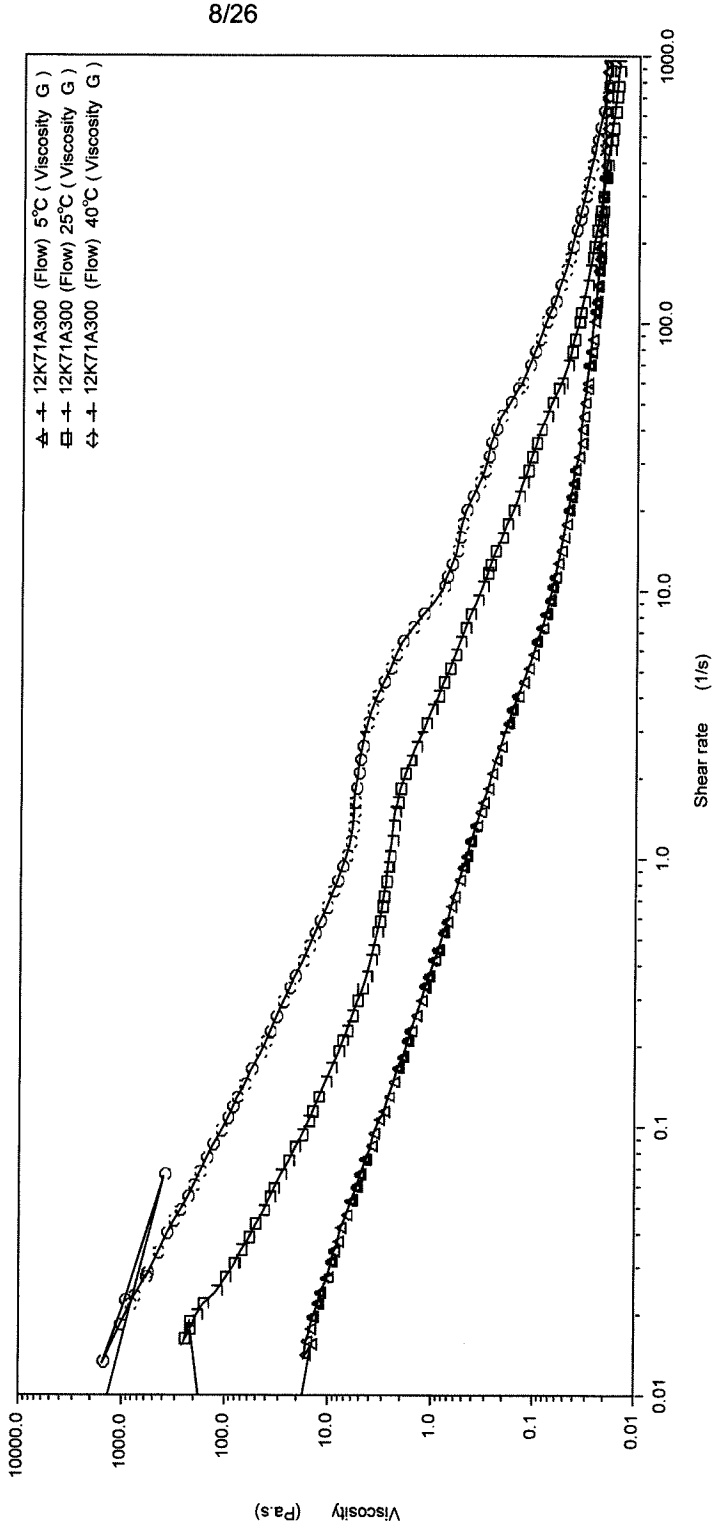
[Fig. 5b]


Povidone K17 0.1 mg/mL 25d
Povidone K17 1.0 mg/mL 25d
Povidone K17 4.0 mg/mL 25d
Povidone K17 10.0 mg/mL 25d
Povidone K17 50.0 mg/mL 25d
Povidone k17 100 mg/mL 25d
Viscosity (Pa.s)
Shear rate - (1/s)
0.01
0.1
1.0
10.0
100.0
1000.0

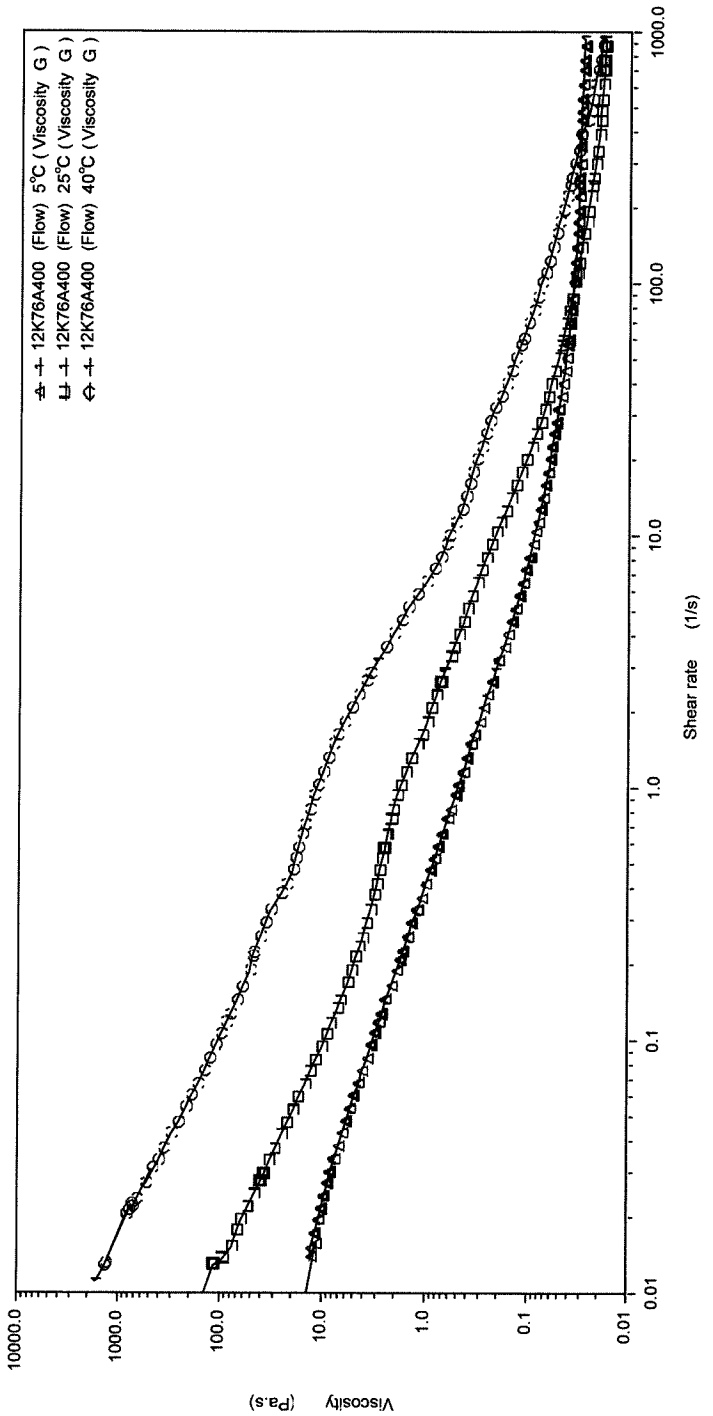
[Fig. 5c]


Povidone K17 0.1 mg/mL
Povidone K17 1.0 mg/mL
Povidone K17 4.0 mg/mL
Povidone K17 10.0 mg/mL
Povidone K17 50.0 mg/mL
Povidone K17 100 mg/mL
Viscosity (Pa.s)
10000.0
1000.0
100.0
10.0
1.0
0.1
0.01
0.01
0.1
1.0
10.0
100.0
1000.0
Shear rate (1/s)

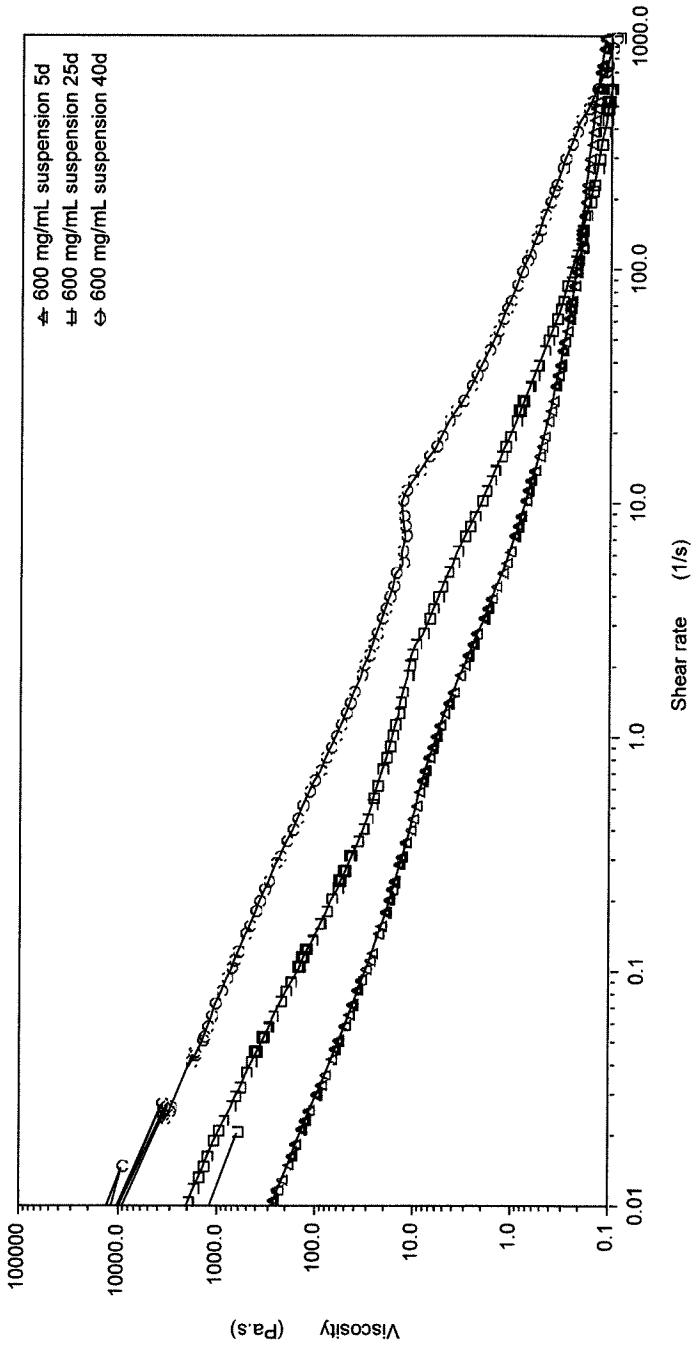
[Fig. 6]


12K71A300 (Flow) 5℃ (Viscosity G)
12K71A300 (Flow) 25℃ (Viscosity G)
12K71A300 (Flow) 40℃ (Viscosity G)
Viscosity (Pa.s)
10000.0
1000.0
100.0
10.0
1.0
0.1
0.01
Shear rate (1/s)
0.01
0.1
1.0
10.0
100.0
1000.0

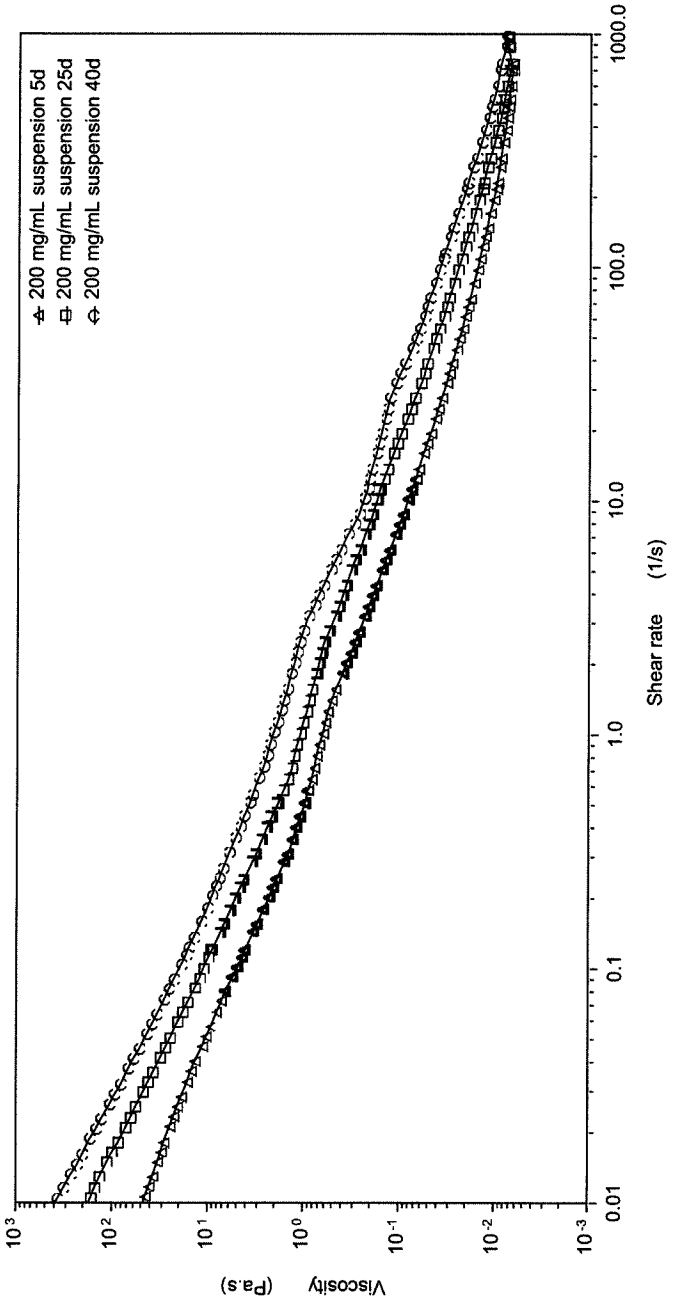
[Fig. 7]


12K76A400 (Flow) 5℃ (Viscosity G)
12K76A400 (Flow) 25℃ (Viscosity G)
12K76A400 (Flow) 40℃ (Viscosity G)
Viscosity (Pa.s)
10000.0
1000.0
100.0
10.0
1.0
0.1
0.01
Shear rate (1/s)
0.01
0.1
1.0
10.0
100.0
1000.0

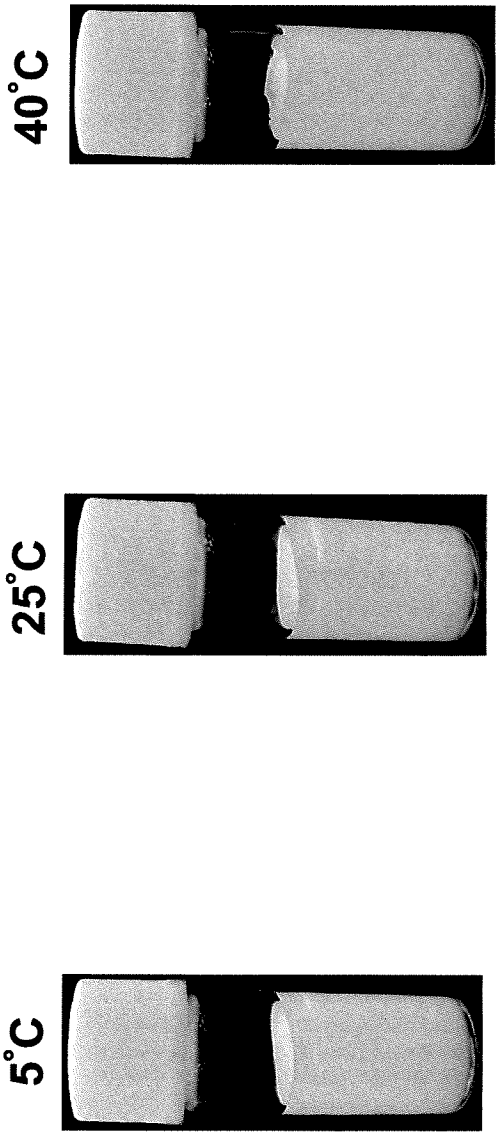
[Fig. 8]


600 mg/mL suspension 5d
600 mg/mL suspension 25d
600 mg/mL suspension 40d
Viscosity (Pa.s)
100000
10000.0
1000.0
100.0
10.0
1.0
0.1
0.01
0.1
1.0
10.0
100.0
1000.0
Shear rate (1/s)

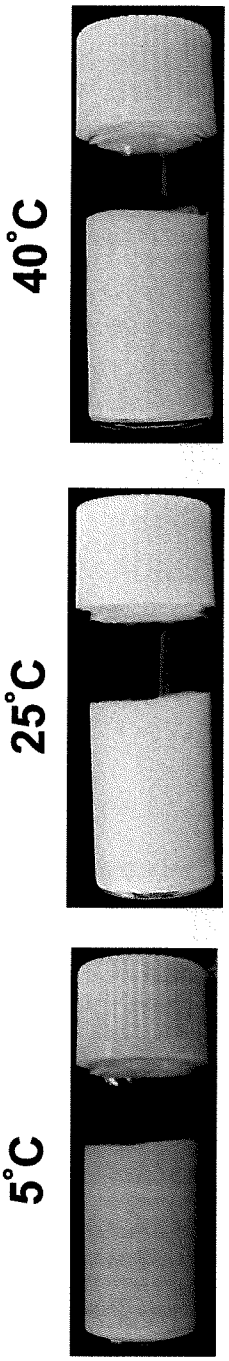
[Fig. 9a]


200 mg/mL suspension 5d
200 mg/mL suspension 25d
200 mg/mL suspension 40d
Viscosity (Pa.s)
Shear rate (1/s)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
0.01
0.1
1.0
10.0
100.0
1000.0

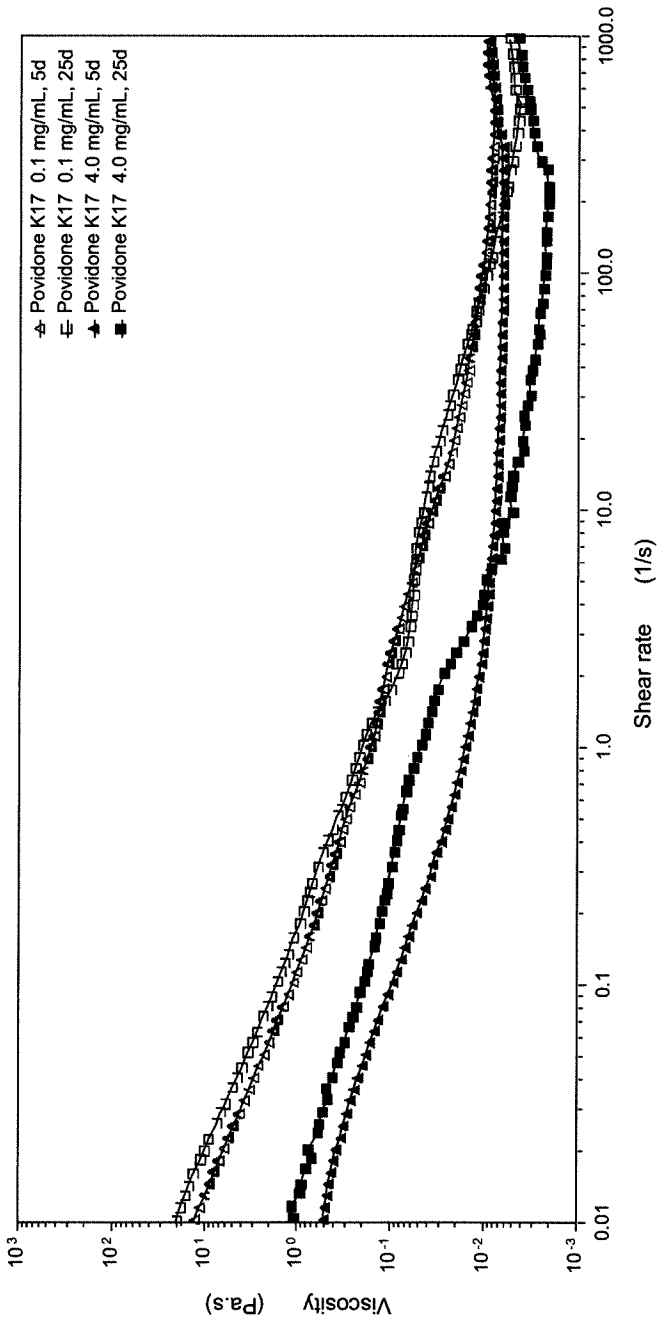
[Fig. 9b]



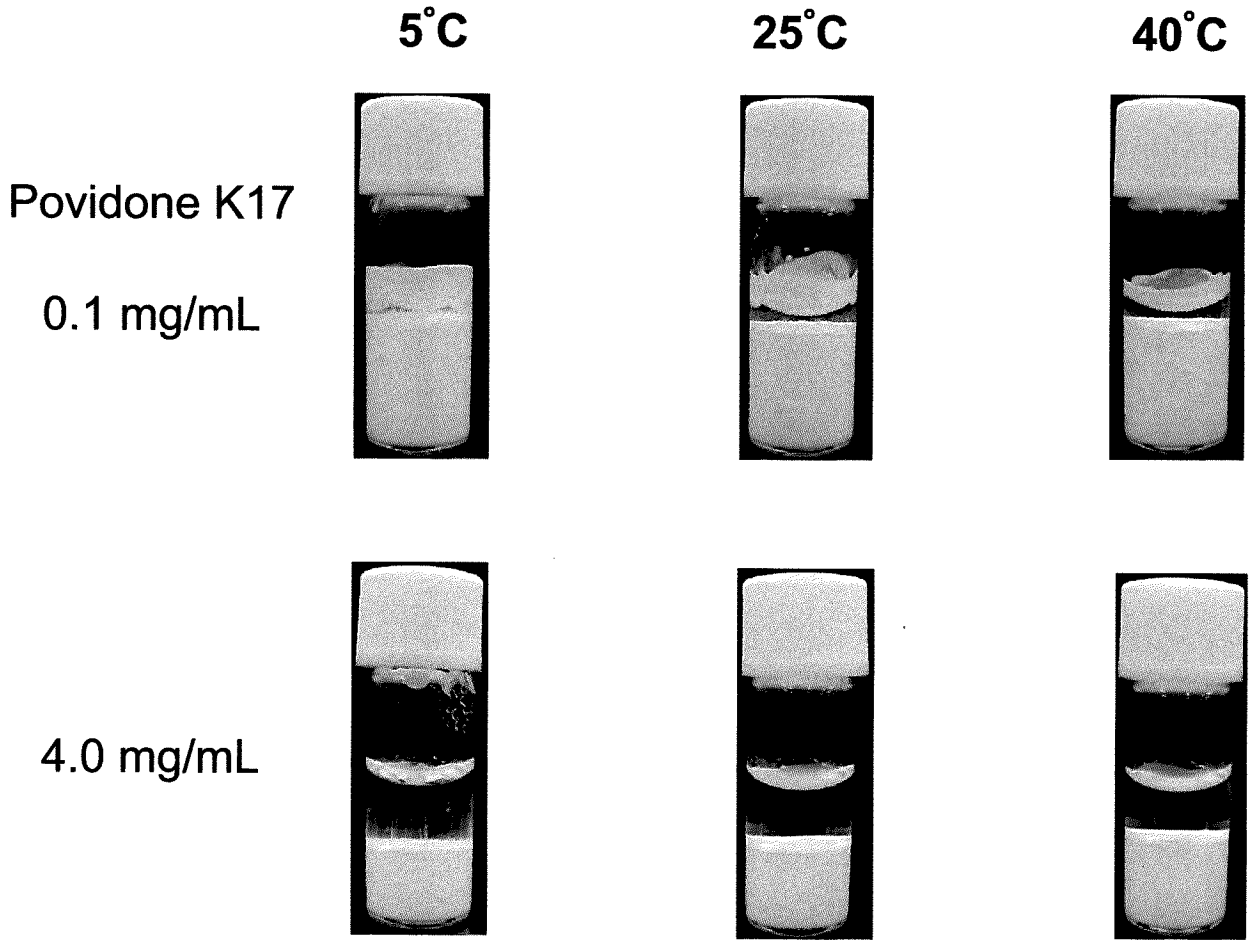
[Fig. 9c]



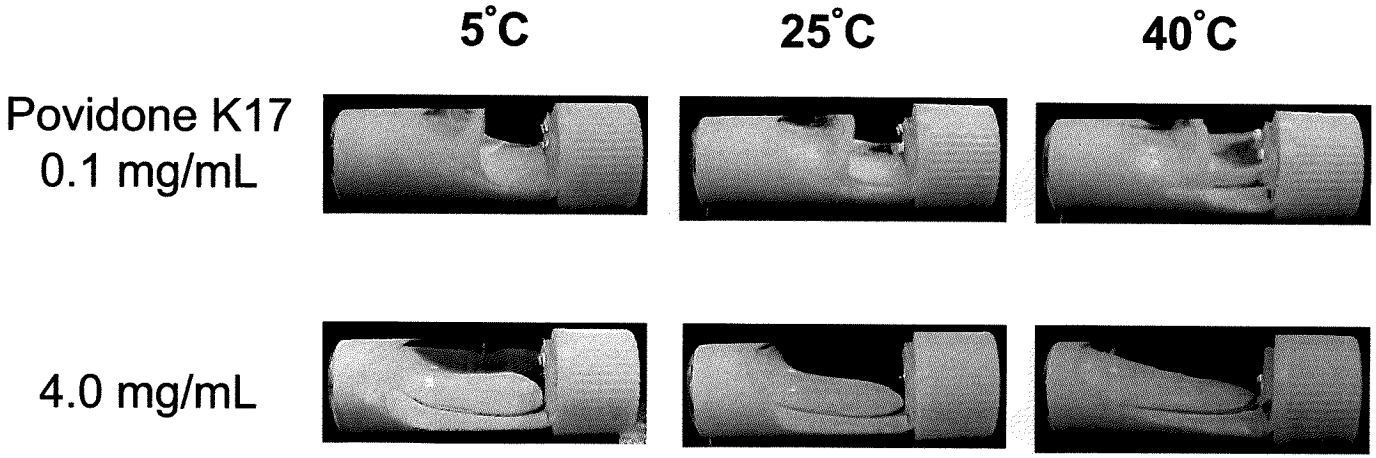
[Fig. 10a]


Povidone K17 0.1 mg/mL, 5d
Povidone K17 0.1 mg/mL, 25d
Povidone K17 4.0 mg/mL, 5d
Povidone K17 4.0 mg/mL, 25d
Viscosity (Pa.s)
Shear rate (1/s)
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
0.01
0.1
1.0
10.0
100.0
1000.0

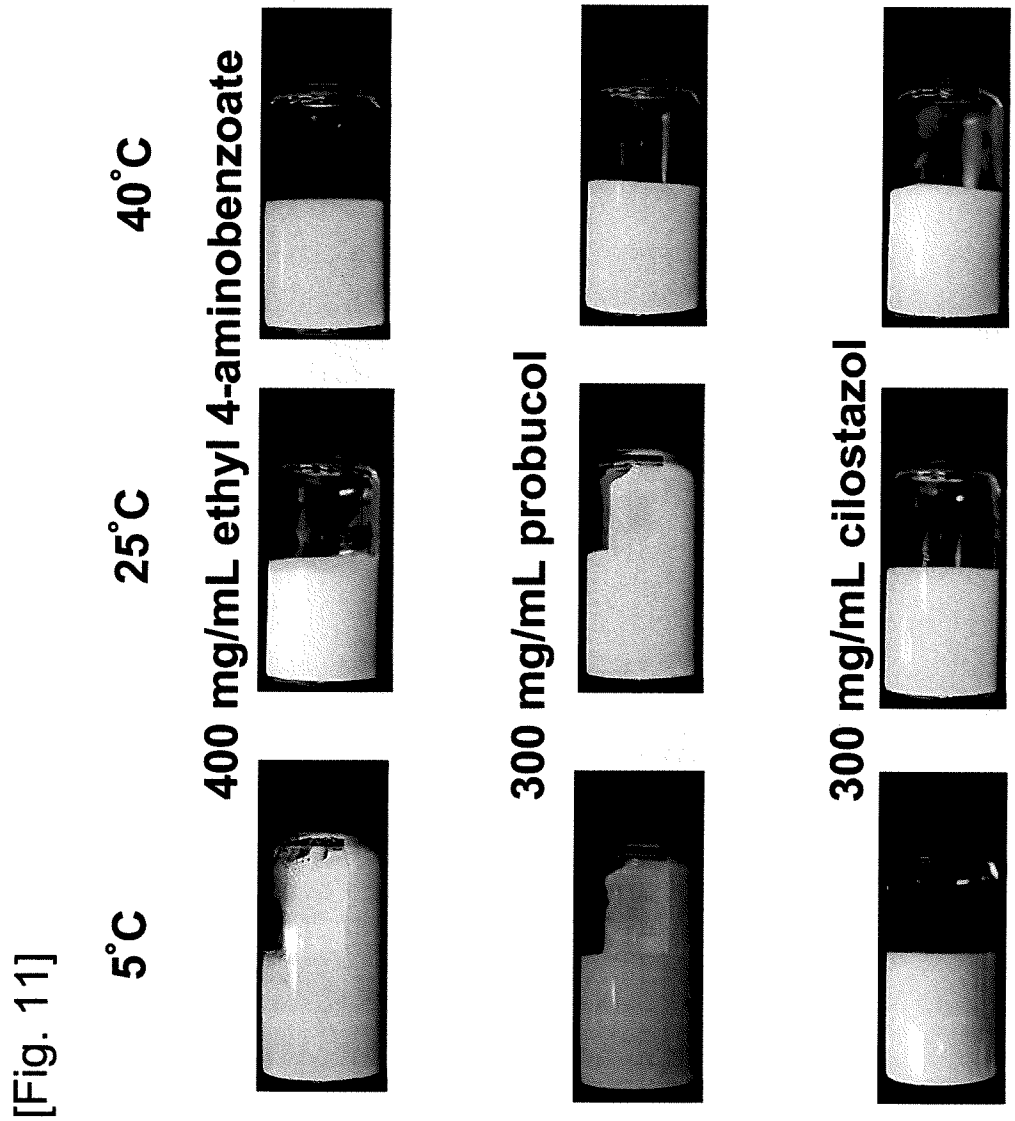
[Fig. 10b]



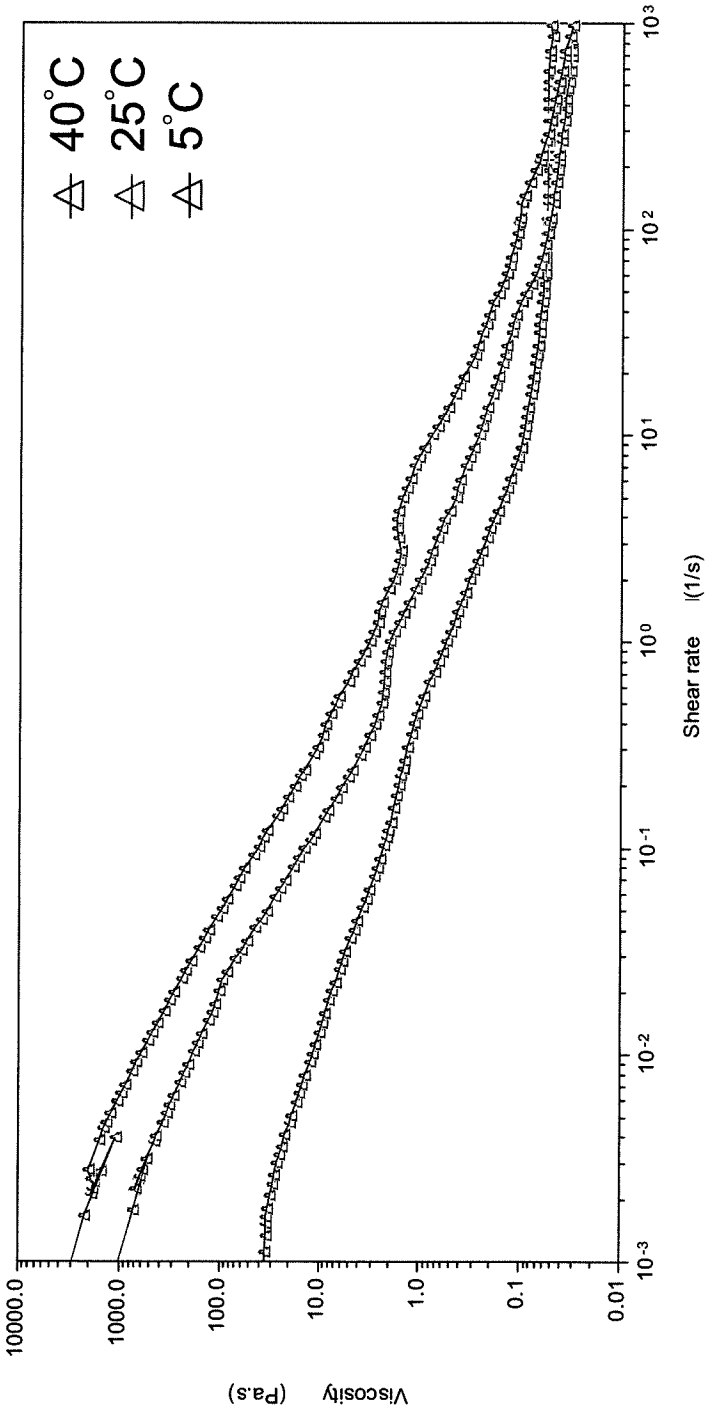
[Fig. 10c]



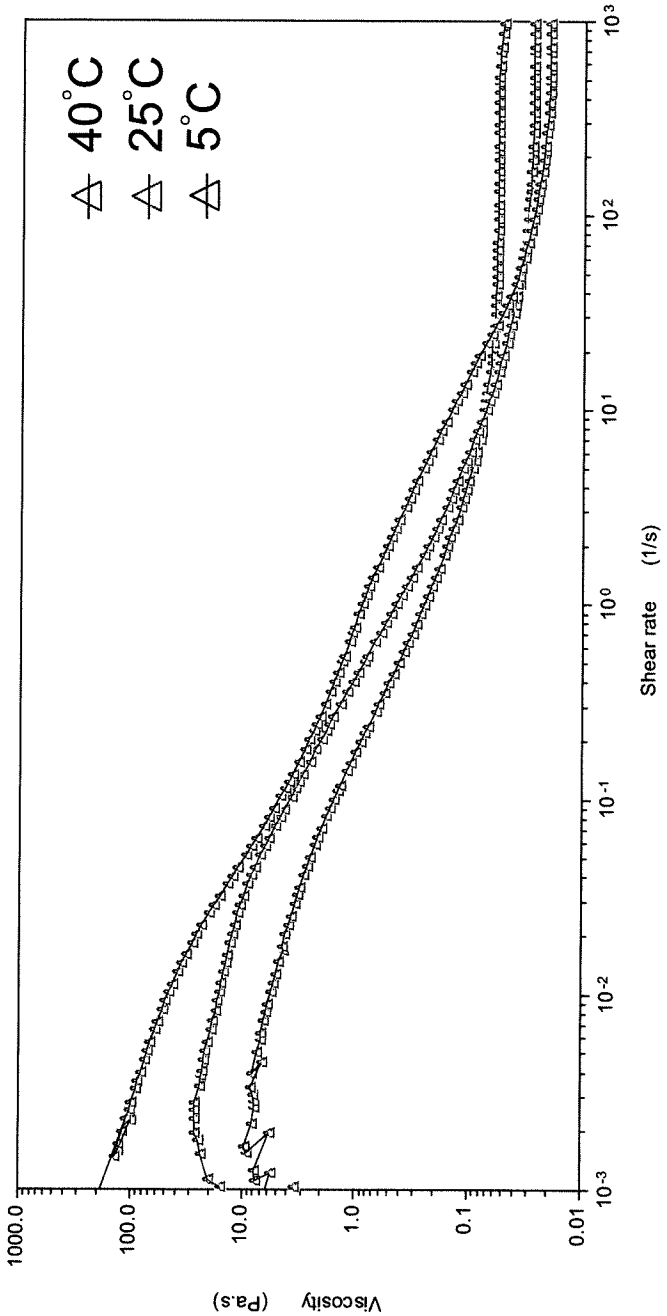
[Fig. 11]


5°C
25°C
40°C
400 mg/mL ethyl 4-aminobenzoate
300 mg/mL probucol
300 mg/mL cilostazol

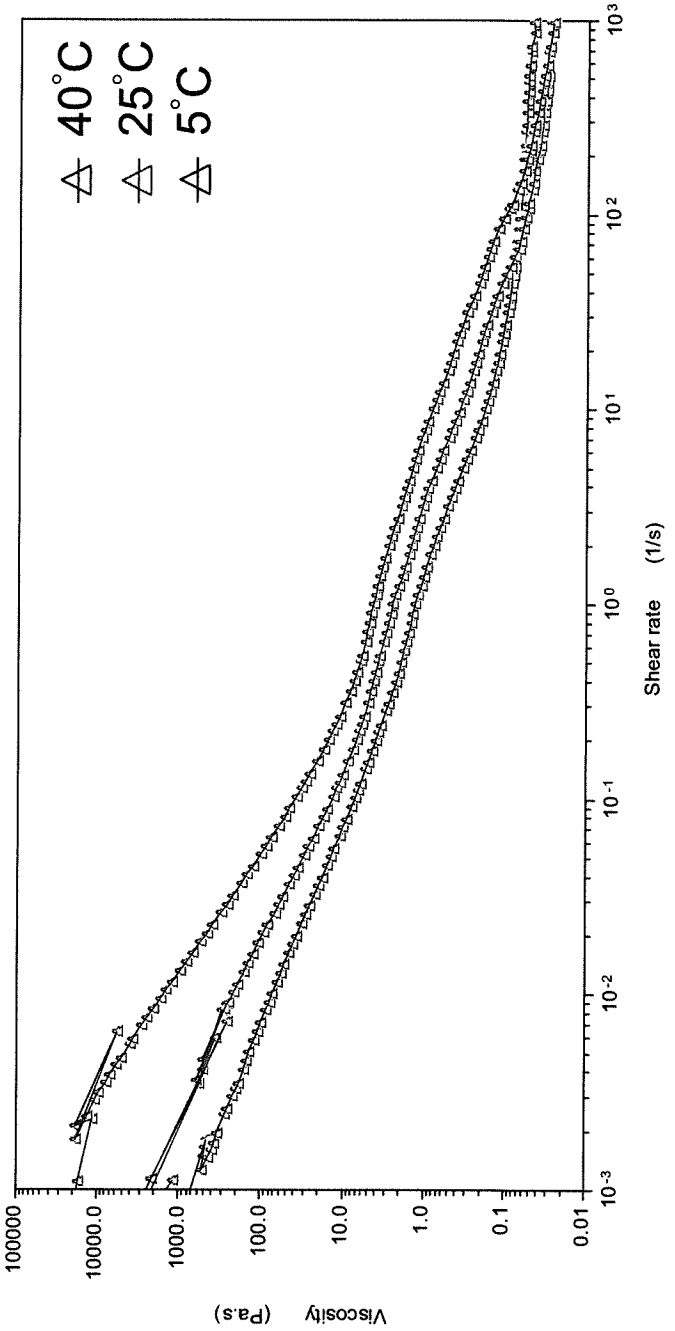
[Fig. 12]


40°C
25°C
5°C
Viscosity (Pa.s)
10000.0
1000.0
100.0
10.0
1.0
0.1
0.01
10-3
10-2
10-1
100
101
102
103
Shear rate (1/s)

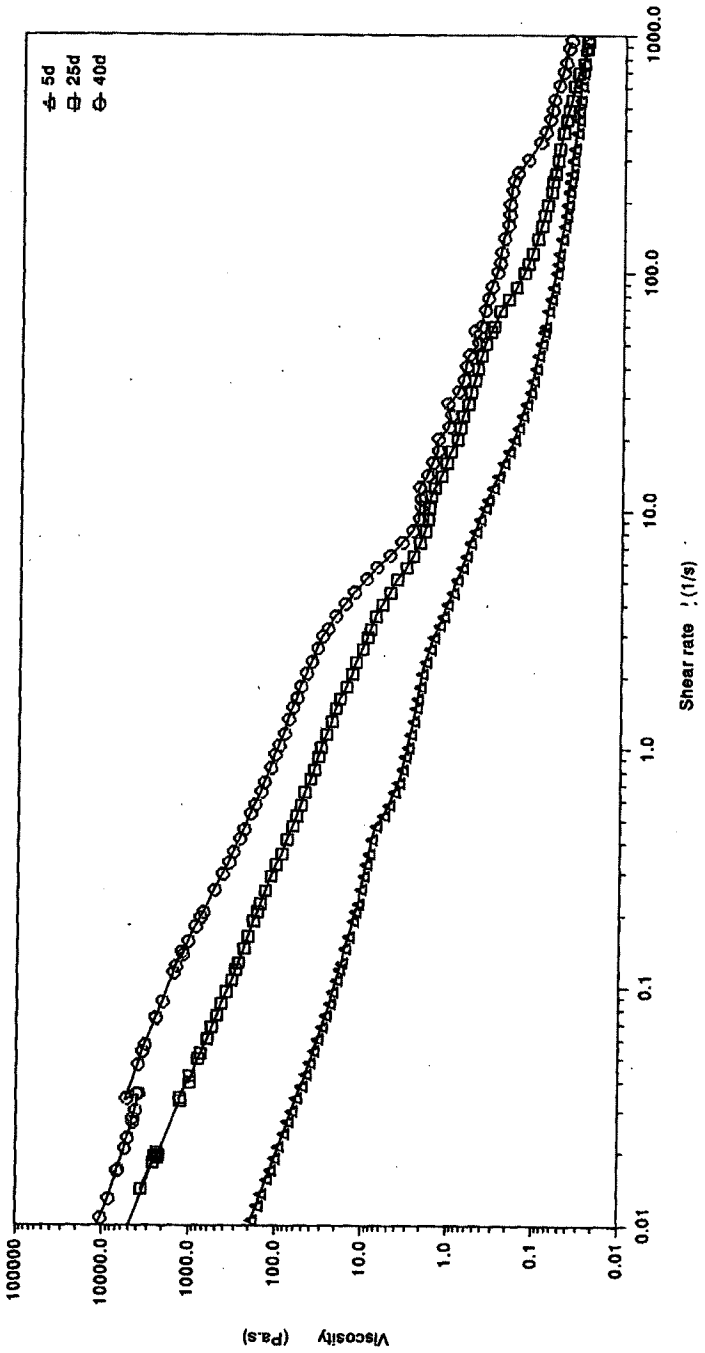
[Fig. 13]


40°C
25°C
5°C
1000.0
100.0
10.0
1.0
0.1
0.01
Viscosity (Pa.s)
10-3
10-2
10-1
100
101
102
103
Shear rate (1/s)

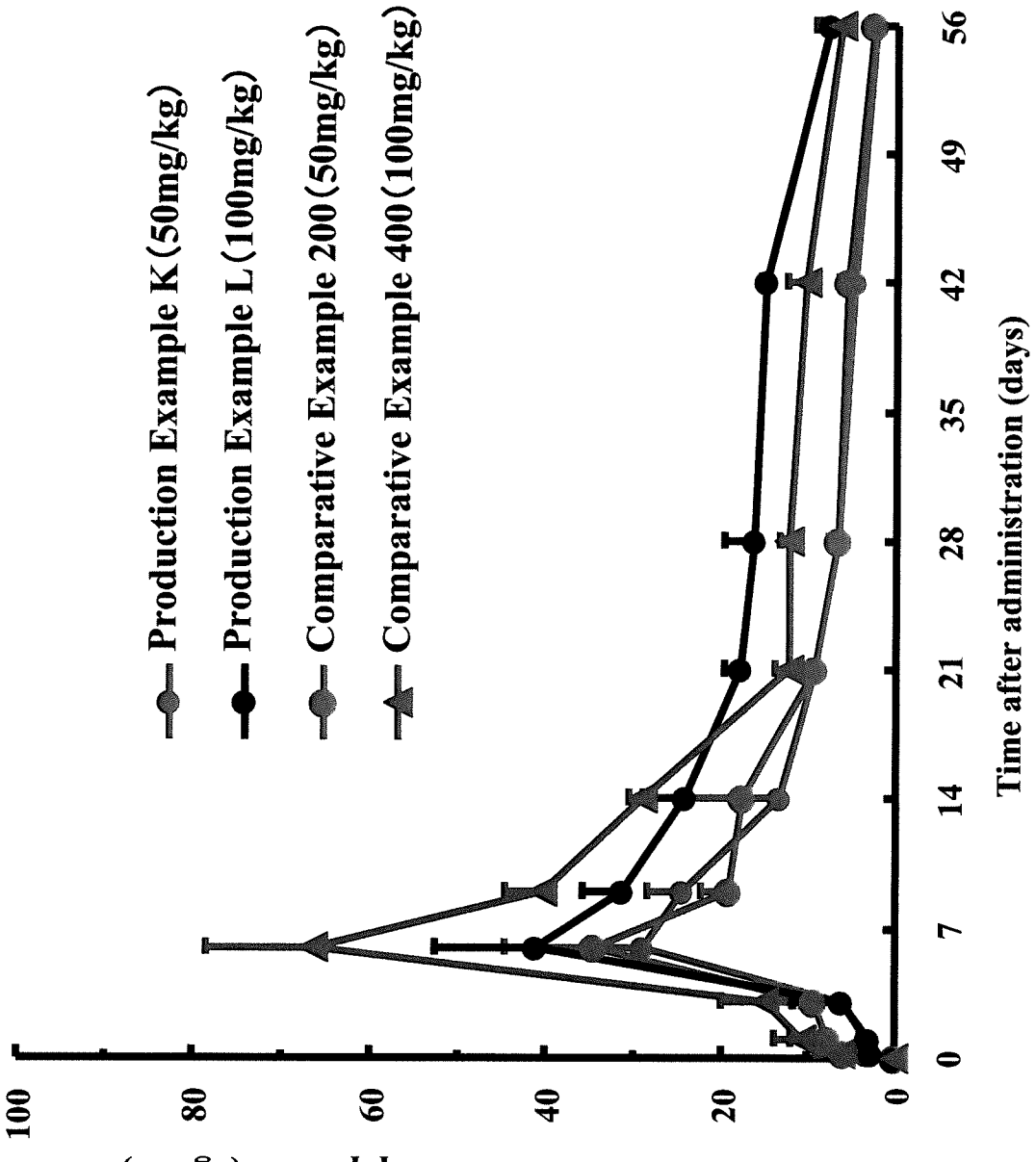
[Fig. 14]


40°C
25°C
5°C
Viscosity (Pa.s)
100000
10000.0
1000.0
100.0
10.0
1.0
0.1
0.01
Shear rate (1/s)
10⁻³
10⁻²
10⁻¹
10⁰
10¹
10²
10³

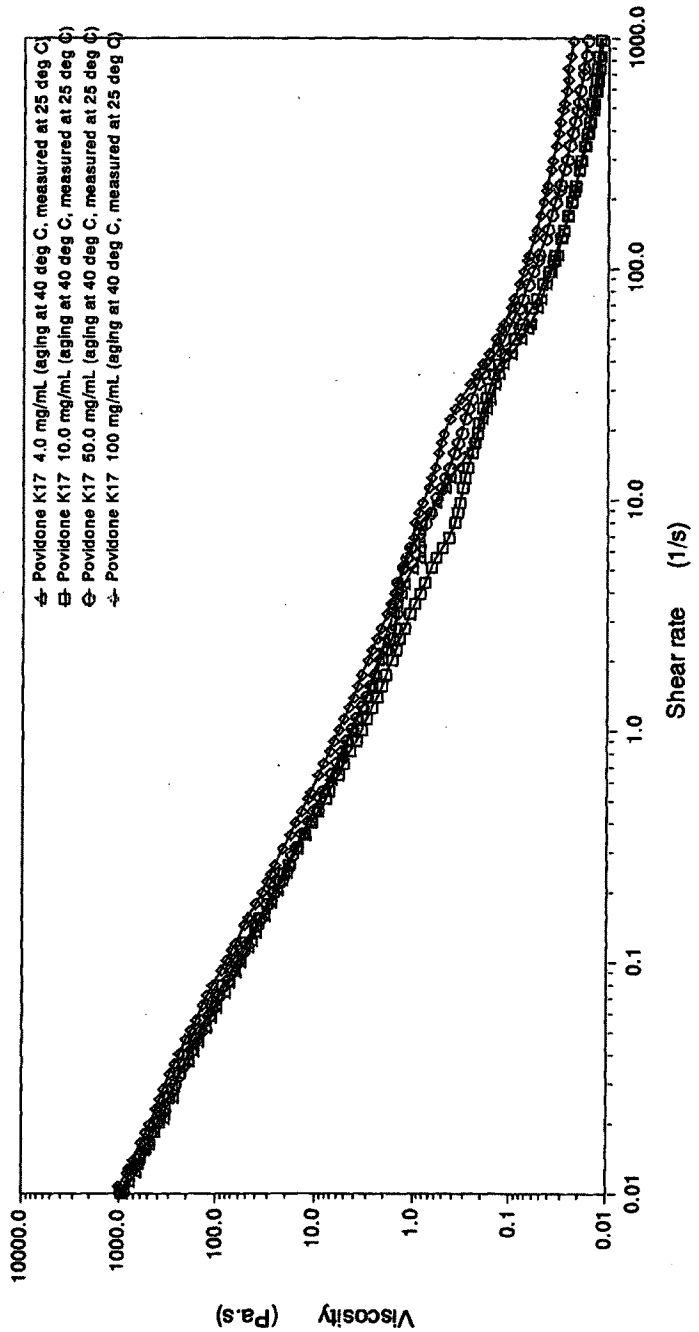
[Fig. 15]


5d
25d
40d
Viscosity (Pa.s)
100000
10000.0
1000.0
100.0
10.0
1.0
0.1
0.01
Shear rate (1/s)
0.01
0.1
1.0
10.0
100.0
1000.0

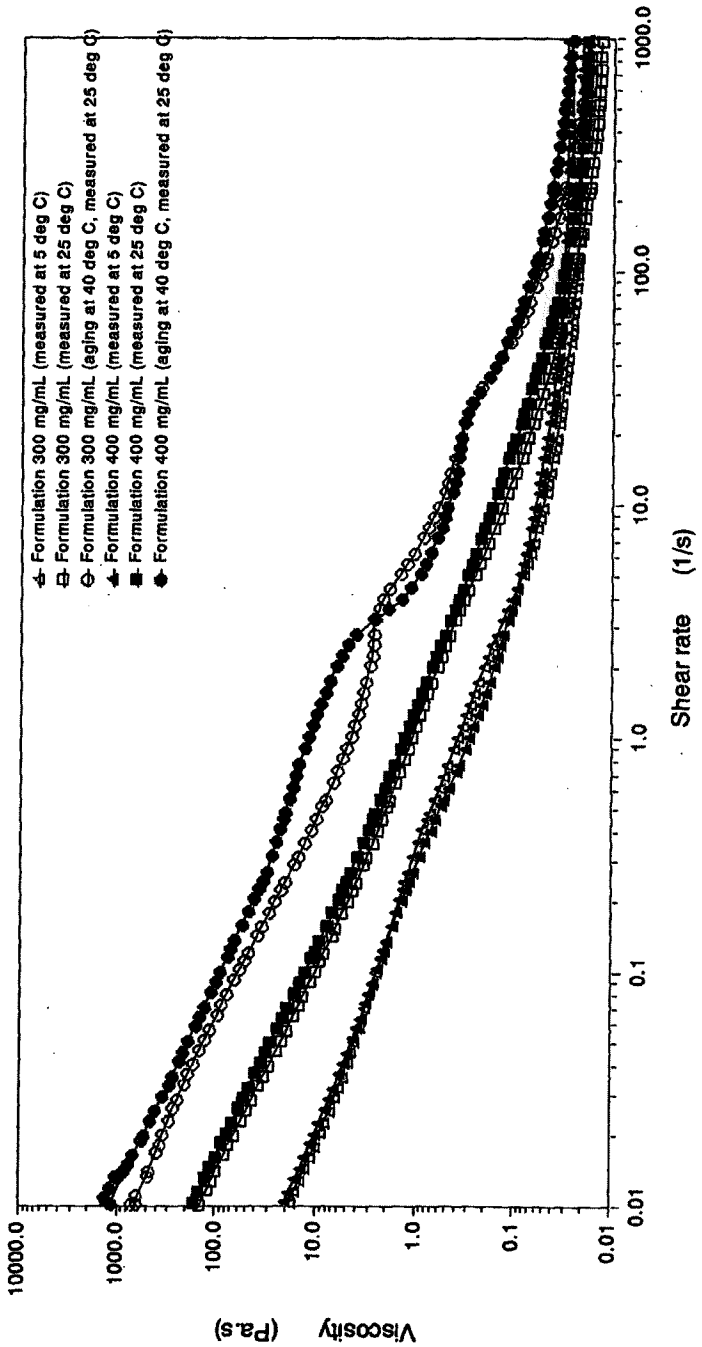
[Fig. 16]


Production Example K (50mg/kg)
Production Example L (100mg/kg)
Comparative Example 200 (50mg/kg)
Comparative Example 400 (100mg/kg)
Serum concentration of aripiprazole (ng/mL)
100
80
60
40
20
0
0
7
14
21
28
35
42
49
56
Time after administration (days)

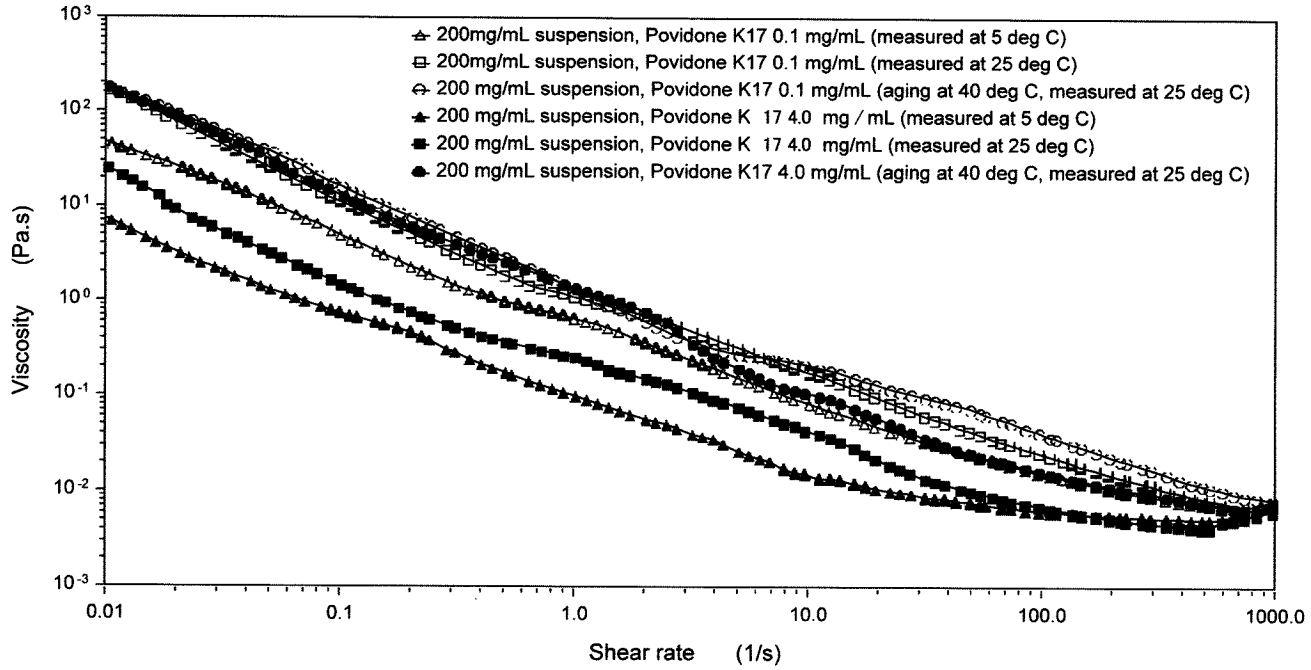
[Fig. 17]


Povidone K17 4.0 mg/mL (aging at 40 deg C, measured at 25 deg C)
Povidone K17 10.0 mg/mL (aging at 40 deg C, measured at 25 deg C)
Povidone K17 50.0 mg/mL (aging at 40 deg C, measured at 25 deg C)
Povidone K17 100 mg/mL (aging at 40 deg C, measured at 25 deg C)
Viscosity (Pa.s)
10000.0
1000.0
100.0
10.0
1.0
0.1
0.01
Shear rate (1/s)
0.01
0.1
1.0
10.0
100.0
1000.0

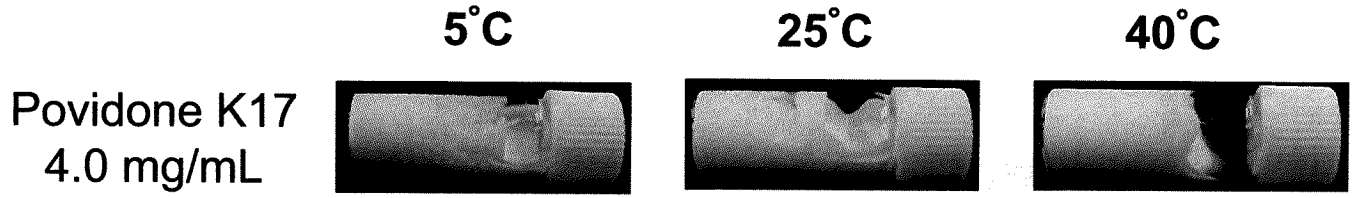
[Fig. 18]


Formulation 300 mg/mL (measured at 5 deg C)
Formulation 300 mg/mL (measured at 25 deg C)
Formulation 300 mg/mL (aging at 40 deg C, measured at 25 deg C)
Formulation 400 mg/mL (measured at 5 deg C)
Formulation 400 mg/mL (measured at 25 deg C)
Formulation 400 mg/mL (aging at 40 deg C, measured at 25 deg C)
Viscosity (Pa.s)
10000.0
1000.0
100.0
10.0
1.0
0.1
0.01
Shear rate (1/s)
0.01
0.1
1.0
10.0
100.0
1000.0

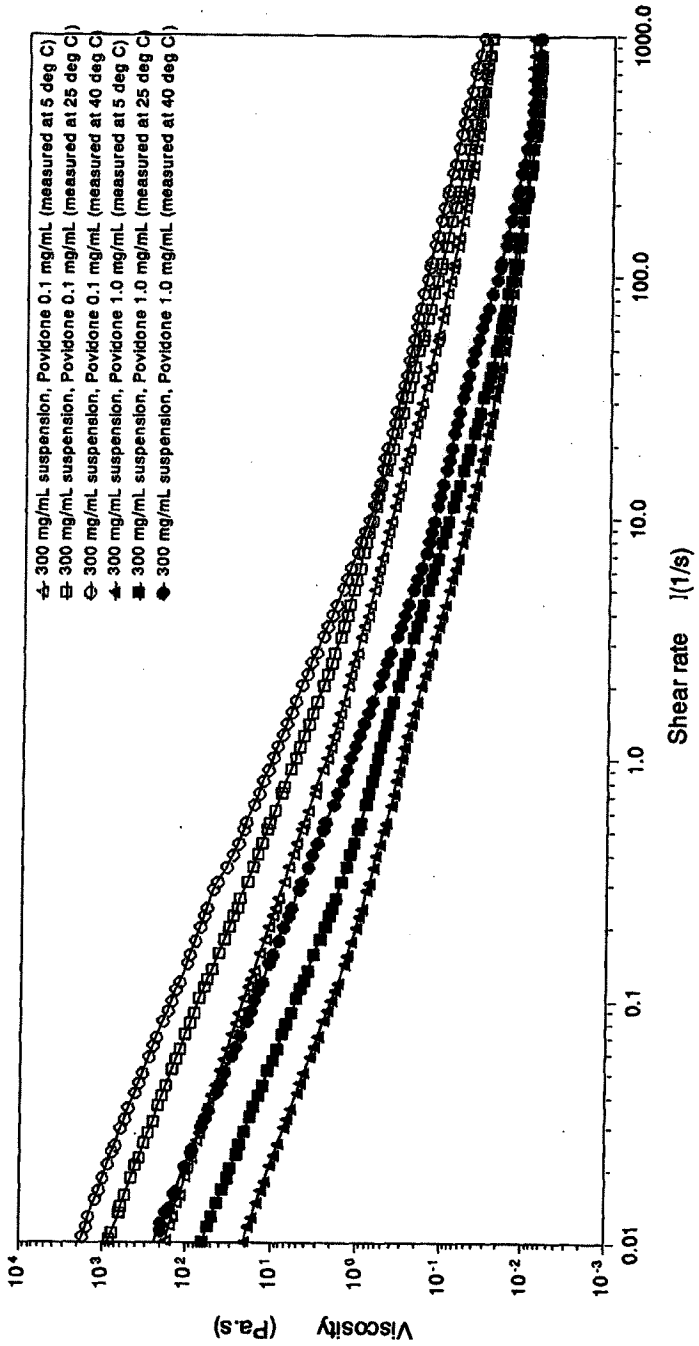
[Fig. 19a]



[Fig. 19b]



[Fig. 20a]


300 mg/mL suspension, Povidone 0.1 mg/mL (measured at 5 deg C)
300 mg/mL suspension, Povidone 0.1 mg/mL (measured at 25 deg C)
300 mg/mL suspension, Povidone 0.1 mg/mL (measured at 40 deg C)
300 mg/mL suspension, Povidone 1.0 mg/mL (measured at 5 deg C)
300 mg/mL suspension, Povidone 1.0 mg/mL (measured at 25 deg C)
300 mg/mL suspension, Povidone 1.0 mg/mL (measured at 40 deg C)
Viscosity (Pa.s)
Shear rate (1/s)
10⁴
10³
10²
10¹
10⁰
10⁻¹
10⁻²
10⁻³
0.01
0.1
1.0
10.0
100.0
1000.0

[Fig. 20b]

