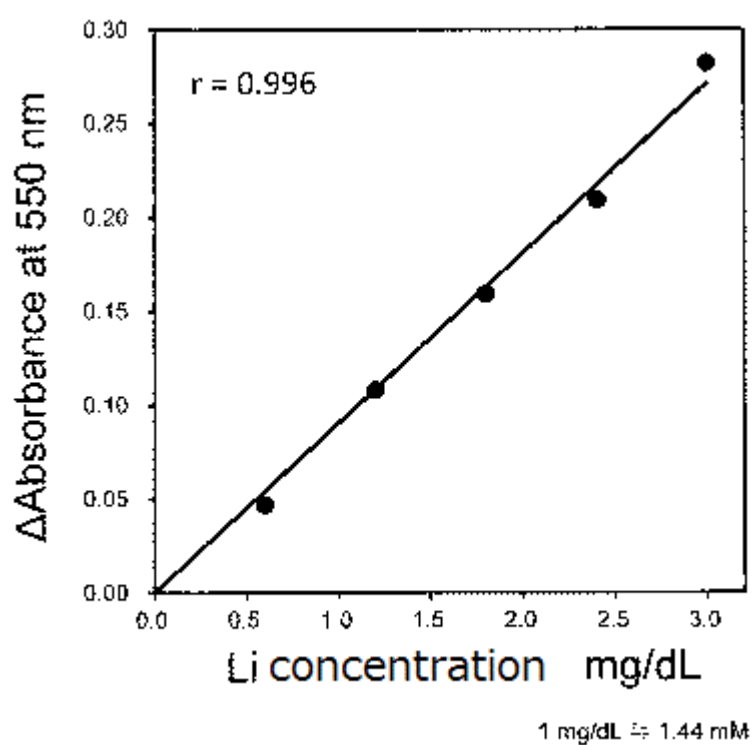


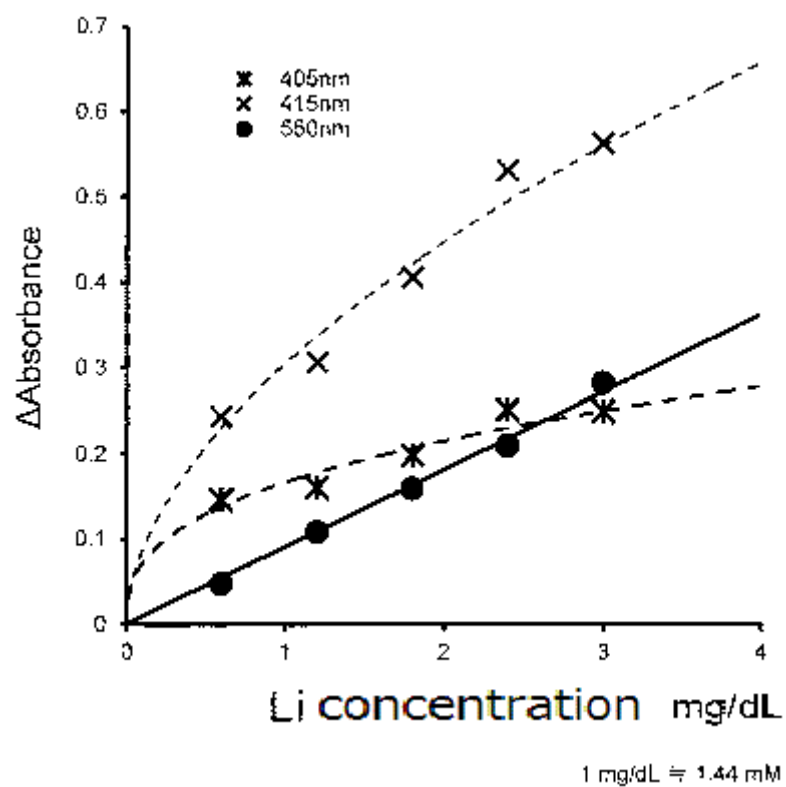
【Fig.1】

base 3 mM lithium sample		1 time	5 times	10 times
Concentration of chelating reagent necessary to the final Li concentration at reaction	mM	0.02	0.1	0.2
Concentration of chelating reagent in the lithium reagent composition	mM g/L	0.08 0.1	0.38 0.4	0.75 0.8

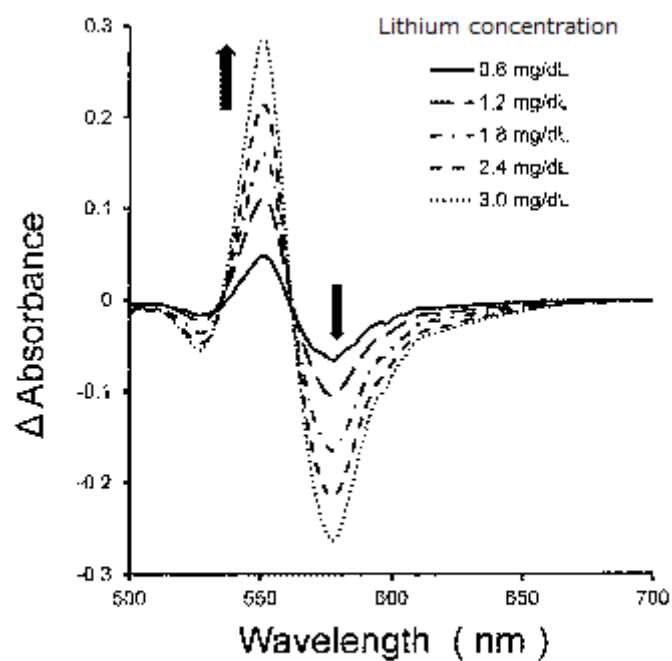
【Fig.2】



【Fig.3】

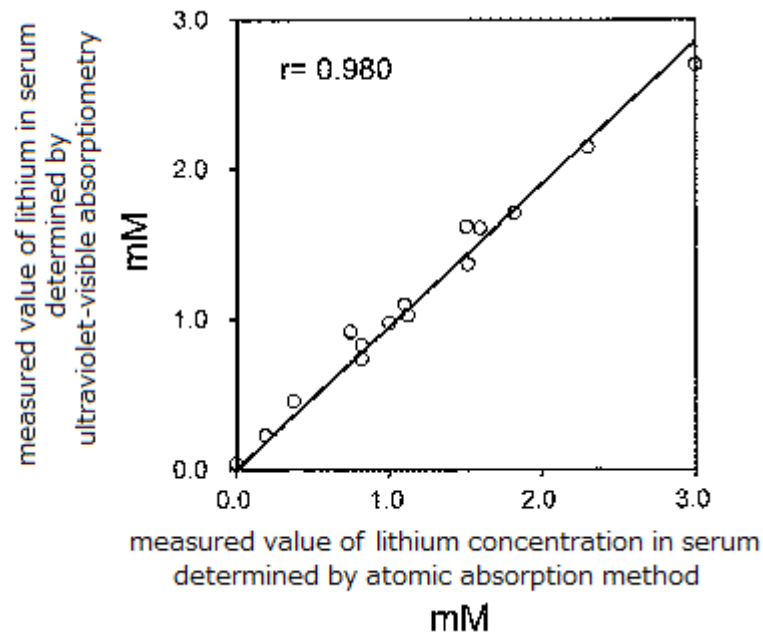


【Fig.4】



Change in spectrum of
F28 tetraphenylporphyrin complex formation

【Fig.5】



【Fig.6】

Table 1
Comparison to measured values obtained
by automatic analysis for control serum sample
unit : mM

Control serum	Guaranteed value	Measured value obtained by the present invention
Precinorm U	0.82	0.83
Precipath U	2.30	2.20
Pathonorm	1.51	1.50
Autonorm	1.00	0.99

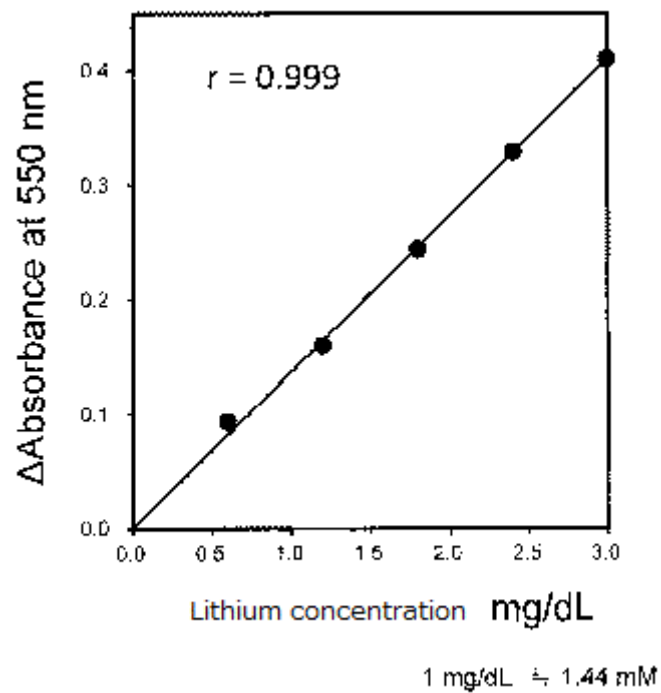
automatic analyzer: Hitachi clinical analyzer H-7700

【Fig.7】

Table 2
Lithium detection by naked eyes

Color tone (standard sample)	Color
less than 1mM (normal region)	yellow
1 to 2 mM (control region)	orange
more than 2 mM (abnormal region)	red
Control serum (specimen)	
Preci norm U (less than 1mM)	yellow
Pathnorm H (1.5 mM/L)	orange
Precipath U (2mM/L)	red

【Fig.8】



【Fig.9】

Table 3
Comparison of measured values among different organic solvents
Unit: mM

	Atomic Absorption Method	Example 1 DMSO 20 wt %	Example 3 DMF 20 wt %	Example 4 DMA 20 wt %
Serum sample	0.82	0.83	0.81	0.81

【Fig.10】

Table 4
Comparison of measured values among different stabilizers
Unit: mM

		Nonionic surfactant	anion surfactant	measured value
Example 5	Sample 1	(+)	(-)	0.82
Example 6	Sample 2	(-)	(+)	0.83
Example 7	Sample 3	(+)	(+)	0.82

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【Fig.11】

Table 5
Comparison of measured values among different masking agents
Unit: mM

		Triethanol amine	EDTA 2K	measured value
Example 5	Sample 1	(+)	(-)	0.83
Example 8	Sample 2	(-)	(+)	0.83
Example 9	Sample 3	(+)	(+)	0.82