Total (Micro) Protein-SL

The DCL methodology is a sensitive dye-binding colorimetric method. The dye, pyrogallol red, complexed with molybdenum, is red at a low pH. The color changes to blue when mixed with proteins. This change is proportional to the amount of protein in the sample. This method reduces cuvette staining, a common problem with other chemistries on the market.

Convenience

This single vial, stable liquid reagent eliminates the necessity of reconstitution, reducing errors and wasted technician time.

Performance

- Linear to 2 g/L (200 mg/dL)
- Linear regression = 1.12 (reference method) - 0.03 g/L (3.0 mg/dL) for urine samples
- Linear regression = 1.078 (reference method) + 0.019 g/L (1.9 mg/dL) for CSF samples
- Correlation coefficient of 0.9826 for urine samples
- Correlation coefficient of 0.9879 for CSF samples

Precision of Assay - Urine

	Within-Run		Run-to-Run	
Sample Mean (g/L)	0.16	0.4	0.17	0.56
N	19	30	15	15
SD (g/L)	0.009	0.014	0.023	0.033
CV (%)	5.5	3.6	13.5	5.9

Precision of Assay - CSF

	Run-to-Run		Day-to-Day	
Sample Mean (g/L)	0.4	0.61	0.34	0.65
N	14	14	10	10
SD (g/L)	0.024	0.014	0.023	0.032
CV (%)	6.2	2.4	6.9	4.9

Principle

Protein + Pyrogallol Red-Molybdenum Complex ⟶ Protein-Pyrogallol Red-Molybdenum Complex

Total (Micro) Protein-SL

Single vial, stable liquid, ready-to-use formulation, 24 month shelf life at 2-8° C

Cat. No. 450-50	Pyrogallol Red, Endpoint, 600 nm	2 x 250 mL*
Cat. No. 450-10	Pyrogallol Red, Endpoint, 600 nm	1 x 250 mL*

*Standard included

450.1S
5/30/02

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