

Beta-2 Microglobulin

FOR THE QUANTITATIVE DETERMINATION OF HUMAN BETA-2 MICROGLOBULIN (B2M) IN SERUM/PLASMA OR URINE

METHOD: LATEX-ENHANCED IMMUNOTURBIDIMETRIC ASSAY

B2M is a protein that is found on the surface of almost all cells and is shed by cells into the blood, particularly B lymphocytes and tumor cells. Measurement of B2M is useful in the diagnosis of renal disorders and various malignant tumors, in treatment assessment and disease prognosis for myeloma, and also in monitoring the activity of chronic lymphocytic leukemia and AIDS¹.

The B2M assay is a convenient immunoturbidimetric assay that can be run on automated clinical chemistry analyzers. The assay is intended for the quantitative determination of B2M in human serum/ plasma and urine.

Features:

- Quantitative determination of human B2M in serum/plasma or urine
- Assay range: 0.2-80.0 mg/L (serum/plasma), 0.03-8.00 mg/L (urine)
- Liquid, ready to use reagents

Benefits:

- Flexible testing options
- Minimal need for repeats
- Convenient

Performance Characteristics

Precision

- When a sample containing a known level of β 2MG is tested 10 times, the CV of the test should typically be under 7%

Method Comparison^(a)

SERUM

- Slope: 0.985
- Intercept: 0.235 mg/L
- Correlation Coefficient: 0.999

URINE

- Slope: 0.960
- Intercept: 6.177 μ g/L
- Correlation Coefficient: 1.000

(a) The performance of this method (y) was compared with results from another latex agglutination method (x).

Linearity

- Serum/Plasma: 0.2-80.0 mg/L
- Urine: 0.03-8.00 mg/L (30-8,000 μ g/L)

No Significant Interferences Up to Levels Indicated

- Bilirubin F and C: 30 mg/dL
- Hemoglobin: 500 mg/dL

Reference Range

- Serum¹: < 2.0 mg/L
- Urine²: \leq 300 μ g/L (\leq 0.3 mg/L)

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Ordering information

	Configuration	Catalog Number
Beta-2 Microglobulin	R1 1 x 45mL R2 1 x 20mL	KAI-280
Beta-2 Microglobulin Serum/Plasma Calibrator	5 x 2mL	KAI-281C
Beta-2 Microglobulin Urine Calibrator	5 x 2mL	KAI-282C
Beta-2 Microglobulin/Ferritin Serum/Plasma Control	2 Levels; 1 x 3mL each	K283C-2M
Beta-2 Microglobulin/Ferritin Serum/Plasma Control	2 Levels; 2 x 3mL each	K283C-4M
Beta-2 Microglobulin Urine Control	2 Levels; 1 x 2mL each	K284C-2M
Beta-2 Microglobulin Urine Control	2 Levels; 2 x 2mL each	K284C-4M

(1) Jacobs, David S., et al., Laboratory Test Handbook, 4th Edition (Lexi-Comp Inc, 1996), p. 371.

(2) Moriguchi, J., Ezaki, T., Tsukahara, T., et al., "Comparative evaluation of four urinary tubular dysfunction markers, with special references to the effects of aging and correction for creatinine concentration", Toxicol Lett, 2003; Aug 28; 143(3): 279-290.



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