The DakoCytomation Beta-2-Microglobulin Kit for use on the Beckman Coulter IMMAGE® Immunochemistry System

Clinical Significance
Beta-2-microglobulin (β2M) is filtered out of the body by the kidney’s glomeruli and almost completely reabsorbed by the kidney’s proximal tubules.\(^1\) Increased levels are seen in patients with glomerular kidney disease, as the β2M is not being filtered out of the blood. Decreased levels are seen in tubular kidney disease, as the tubules can’t reabsorb the β2M back into the blood. β2M levels are monitored closely after a kidney transplant as increased levels may be an early indication of rejection.\(^2\)

Several diseases are associated with an increased production of β2M, which results in serum β2M levels higher than expected. Increased serum β2M levels in systemic lupus erythematosus, rheumatoid arthritis and Sjögren’s syndrome are also found.\(^3\) Additionally, serum β2M concentrations increase in renal allograft rejections.\(^4\) All these clinical data suggest that lymphocyte and macrophage stimulation result in an increased β2M production.

Intended Use

Product Information
The easy-to-use IMMAGE system requires no sample preparation and provides results in just a few minutes.

The DakoCytomation Beta-2-Microglobulin is a User-Defined Reagent (UDR) kit that offers:
- Liquid, ready-to-use reagents
- Acceptable sample type: serum, heparinized or EDTA plasma
- β2M calibrators and controls, conveniently packaged with reagent kit
- Kit components remain stable until the manufacturer expiration date
**Product Specifications**

**PRINCIPLE**  
Rate Nephelometry

**MEASURING RANGE**  
Approximately 0.5 – 20 mg/L

**SAMPLE TYPE**  
Serum or Plasma

**PRECISION**  
≤ 5.0% within-run  
≤ 7.0% total

**STABILITY**  
Up to manufacturer expiration date when stored properly

**CALIBRATION STABILITY**  
7 days

**SAMPLE VOLUME**  
48 µL

**INTERFERENCE**  
The reaction is not affected by:  
- Bilirubin ≤ 60 mg/dL  
- Lipid (Human Triglyceride) ≤ 1500 mg/dL  
- Hemoglobin ≤ 1000 mg/dL

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**Ordering Information**

A10482  
Reagents, calibrators and controls (packaged together). Includes: Reagents for 115 tests. All components are ready-to-use. UDR cartridge, UDR procedure.

**References**


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**Distributed by:** Beckman Coulter, Inc. for IMMAGE® Immunochemistry Systems

**Manufactured by:** DakoCytomation  
Denmark, A/S  
Produktionsvej 42  
DK-2600 Glostrup  
Denmark