



**THE  
BINDING  
SITE**

# **FREELITE™**

*For Use On*  
**Beckman Coulter IMMAGE®**

## **Highly Specific Reagents for the Measurement of Immunoglobulin Free Light Chains in Serum**

### **SENSITIVE**

Latex enhanced reagents give previously unattainable levels of sensitivity.  
<3.0mg/L for serum **free kappa** and **free lambda**<sup>1</sup>.

### **SPECIFIC**

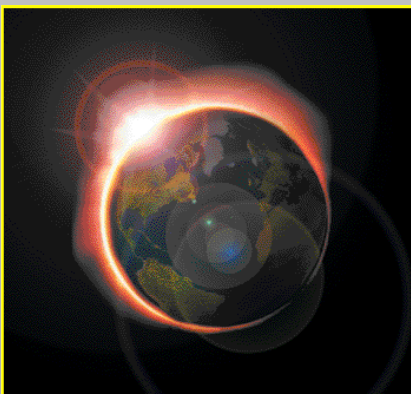
Specificity confirmed against whole immunoglobulin preparations. Minimal cross reactivity allows true free light chain levels to be precisely measured in serum despite myelomatous levels of whole immunoglobulin<sup>2</sup>.

### **SIMPLE**

Easily programmed using the user defined reagents option on the Beckman Coulter IMMAGE® and IMMAGE® 800. All necessary supplementary reagents are supplied ready to use.

### **RELIABLE**

Reference ranges have been established and published in *Clinical Chemistry*<sup>3</sup>. Many of the world's leading reference laboratories are now routinely offering Freelite assays as part of their Myeloma investigation panel.



#### **References:**

1. Serum Free Light Chain Analysis. A.R. Bradwell 2004.
2. Highly Sensitive, Automated Immunoassay for Immunoglobulin Free Light Chains in Serum and Urine. Arthur R. Bradwell, Hugh D. Carr-Smith, Graham P. Mead, Lian X. Tang, Paul J. Showell, Mark T. Drayson and Roger Drew. *Clin. Chem*, 2001;47:4;673-680.
3. Serum Reference Intervals and Diagnostic Ranges for Free  $\kappa$  and Free  $\lambda$  Immunoglobulin Light Chains: Relative Sensitivity for Detection of Monoclonal Light Chains. Jerry A. Katzmann, Raynell J. Clark, Roshini S. Abraham, Sandra Bryant, James F. Lymp, Arthur R. Bradwell and Robert A. Kyle. *Clin. Chem*, 2002;48:9;1437-1444.

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# FREELITE™ for use on IMAGE® & IMAGE® 800

	KAPPA	LAMBDA
<b>NORMAL ADULT SERUM RANGE</b> (95 percentiles)	3.3 - 19.4 mg/L	5.7 - 26.3 mg/L
<b>MEASURING RANGE</b> Standard sample dilution (1/10)	6.0 - 180 mg/L	8.0 - 270 mg/L
<b>SENSITIVITY</b> Minimum serum sample dilution (1/5)	3.0 mg/L	4.0 mg/L
<b>STANDARD SERUM SAMPLE DILUTION</b>	1/10	1/10
<b>MINIMUM SERUM SAMPLE DILUTION</b>	1/5	1/5
Sample volume per test (diluted)	15 microlitres	5 microlitres
Minimum sample volume	70 microlitres	70 microlitres
Reagent volume per test	60 microlitres	60 microlitres
Dead volume per vial	300 microlitres	300 microlitres
<b>INTRA ASSAY PRECISION</b>		
Level 1	2.48%	6.41%
Level 2	3.41%	4.08%
Level 3	2.01%	2.40%
<b>INTER ASSAY PRECISION</b>		
Level 1	12.47%	6.74%
Level 2	7.23%	9.39%
Level 3	6.42%	2.86%
<b>OPEN VIAL STABILITY</b>		
Latex reagent - Liquid ready to use	3 months	3 months
Calibrators & Controls - Liquid ready to use	3 months	3 months
<b>KIT CONTENTS</b>		
Latex reagent	2 x 3.5 mL	2 x 3.5 mL
Calibrator set	6 x 1.0 mL	6 x 1.0 mL
Low Control	1 x 1.5 mL	1 x 1.5 mL
High Control	1 x 1.5 mL	1 x 1.5 mL
Supplementary Reagent	1 x 3.0 mL	1 x 3.0 mL

ANALYSER	DESCRIPTION	PACK	CODE
Beckman Coulter IMAGE® & IMAGE® 800	Freelite Kappa Kit	2 x 50 test	LK016.IM
	Freelite Lambda Kit	2 x 50 test	LK018.IM

All kits are FDA approved for *in vitro* diagnostic use. See product insert for further information. Kits are CE marked for most European countries, please contact us for the latest information.

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