



**THE  
BINDING  
SITE**

# **FREELITE™**

*For Use On*  
**Roche P Module & Hitachi Analysers**

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

### **SENSITIVE**

Latex enhanced reagents give previously unattainable levels of sensitivity.  
<1.0mg/L for serum **free kappa** and **free lambda**<sup>1</sup>.

### **SPECIFIC**

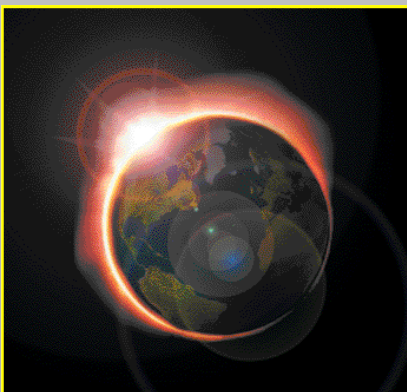
Specificity confirmed against whole immunoglobulin preparations. Minimal cross reactivity allows true free light chain levels to be precisely measured in serum despite myelomatous levels of whole immunoglobulin<sup>2</sup>.

### **SIMPLE**

Full application data and detailed instructions on programming are available. All reagents necessary for running the assays, additional to standard system buffers, are supplied in the kits.

### **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.

# FREELITE™ for use on Hitachi 911, 912, 917 & P Module

	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	3.70 - 56.2 mg/L	7.0 - 93.3 mg/L
<b>SENSITIVITY</b> Minimum serum sample dilution (1/1)	0.8 mg/L	0.88 mg/L
<b>STANDARD SERUM SAMPLE DILUTION</b>	1/5	1/8
<b>MINIMUM SERUM SAMPLE DILUTION</b>	1/1	1/1
Sample volume per test (diluted)	8 microlitres	5 microlitres
Minimum sample volume	40 microlitres	40 microlitres
Reagent volume per test	90 microlitres	90 microlitres
Dead volume per vial	1500 microlitres	1500 microlitres
<b>INTRA ASSAY PRECISION</b> (BASED ON 911)		
Level 1	8.02%	3.67%
Level 2	3.71%	2.55%
Level 3	2.95%	3.46%
<b>INTER ASSAY PRECISION</b> (BASED ON 911)		
Level 1	7.32%	9.50%
Level 2	4.11%	6.84%
Level 3	5.74%	6.31%
<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 6.5 mL	2 x 6.5 mL
Calibrator	2 x 1.5 mL	2 x 1.5 mL
Low Control	1 x 1.0 mL	1 x 1.0 mL
High Control	1 x 1.0 mL	1 x 1.0 mL
Supplementary Reagent	1 x 25 mL	1 x 25 mL

ANALYSER	DESCRIPTION	PACK	CODE
Roche Hitachi	Freelite Kappa Kit	2 x 50 test	LK016.H
911/912/917/P Module	Freelite Lambda Kit	2 x 50 test	LK018.H

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.

THE BINDING SITE LIMITED  
P.O. Box 11712, Birmingham, B14 4ZB, UK.

Tel: +44 (0)121 436 1000 Fax: +44 (0)121 430 7061 info@bindingsite.co.uk

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