



**THE
BINDING
SITE**

FREELITE™

For Use On
Olympus AU Series Analysers

**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**¹.

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 immunoglobulin².

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*³. 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 κ and Free λ 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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	KAPPA	LAMBDA
NORMAL ADULT SERUM RANGE (95 percentiles)	3.3 - 19.4 mg/L	5.7 - 26.3 mg/L
MEASURING RANGE Standard sample dilution (1/10)	6.0 - 150 mg/L	6.0 - 150 mg/L
SENSITIVITY Minimum serum sample dilution (1/5)	3.0 mg/L	3.0 mg/L
STANDARD SERUM SAMPLE DILUTION	1/10	1/10
MINIMUM SERUM SAMPLE DILUTION	1/5	1/5
Sample volume per test (diluted)	5 microlitres	5 microlitres
Minimum sample volume	40 microlitres	40 microlitres
Reagent volume per test	55 microlitres	55 microlitres
Dead volume per vial	800 microlitres	800 microlitres
INTRA ASSAY PRECISION		
Level 1	1.97%	1.64%
Level 2	1.24%	0.77%
Level 3	1.89%	6.79%
INTER ASSAY PRECISION		
Level 1	5.78%	5.43%
Level 2	5.17%	4.92%
Level 3	6.02%	4.51%
OPEN VIAL STABILITY		
Latex reagent - Liquid ready to use	3 months	3 months
Calibrators & Controls - Liquid ready to use	3 months	3 months
KIT CONTENTS		
Latex reagent	2 x 4.0 mL	2 x 4.0 mL
Standard 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	2 x 6.0 mL	2 x 6.0 mL

ANALYSER	DESCRIPTION	PACK	CODE
Olympus	Freelite Kappa Kit	2 x 50 test	LK016.AU
AU400/640/2700/5400	Freelite Lambda Kit	2 x 50 test	LK018.AU

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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