

Freelite™

For Use On

Roche cobas® Series

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

SENSITIVE

Latex enhanced reagents give previously unattainable levels of sensitivity. <1.5mg/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

Following addition of reagents to the bar-coded C-pack, assays run automatically, no further programming is required. 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.

Freelite™ for use on Roche cobas® Series

	cobas® 6000		Integra® 400/400 Plus/800	
	KAPPA	LAMBDA	KAPPA	LAMBDA
NORMAL ADULT SERUM REFERENCE RANGE	3.3 - 19.4 mg/L	5.7 - 26.3 mg/L	3.3 - 19.4 mg/L	5.7 - 26.3 mg/L
MEASURING RANGE Standard sample dilution	3.7 - 56.2 mg/L	7.0 - 93.3 mg/L	2.9 - 127 mg/L	5.2 - 139 mg/L
SENSITIVITY Minimum serum sample dilution	0.8 mg/L	0.88 mg/L	0.6 mg/L	1.3 mg/L
STANDARD SERUM SAMPLE DILUTION	1/5	1/8	1/10	1/8
MINIMUM SERUM SAMPLE DILUTION	1/1	1/1	1/2	1/2
Minimum sample volume	150 µL required to run both assays		150 µL required to run both assays	
Reagent volume per test	72 µL	72 µL	72 µL	72 µL
Dead volume per C-Pack (approx)	2.7 - 3 mL	2.7 - 3 mL	2.7 - 3 mL	2.7 - 3 mL
INTRA ASSAY PRECISION				
Level 1	1.4%	4.1%	3.5%	1.4%
Level 2	2.5%	5.5%	2.4%	0.9%
Level 3	1.7%	2.8%	2.4%	2.3%
INTER ASSAY PRECISION				
Level 1	7.2%	10.0%	2.8%	1.7%
Level 2	7.0%	3.6%	1.5%	3.0%
Level 3	2.6%	2.3%	3.8%	2.8%
OPEN VIAL STABILITY Latex Reagent Calibrators & Controls	Refer to kit insert		Refer to kit insert	
KIT CONTENTS				
Latex Reagent	1 x 10.9 mL	1 x 10.9 mL	1 x 10.9 mL	1 x 10.9 mL
Calibrator	2 x 1.5 mL	2 x 1.5 mL	2 x 2 mL	2 x 2 mL
Low Control	1 x 1.5 mL	1 x 1.5 mL	2 x 1.5 mL	2 x 1.5 mL
High Control	1 x 1.5 mL	1 x 1.5 mL	2 x 1.5 mL	2 x 1.5 mL
Supplementary Reagent	1 x 20 mL	1 x 20 mL	1 x 20 mL	1 x 20 mL
C-pack	x1	x1	x1	x1
Opening tool for C-pack	x1	x1	x1	x1

ANALYSER	DESCRIPTION	PACK	CODE
Roche cobas Integra® 400 / 400 Plus / 800	Freelite Kappa Kit	1 x 100 test	LK016.RI
	Freelite Lambda Kit	1 x 100 test	LK018.RI
Roche cobas® 6000	Freelite Kappa Kit	1 x 100 test	LK016.CB
	Freelite Lambda Kit	1 x 100 test	LK018.CB

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Dec 08