

MININEPH™ PLUS

A stylish and compact analyser offering rapid quantitation of Freelite® and a wide range of specialist protein assays for the low volume user



MININEPH™ PLUS



Result reassurance

- All MININEPHPLUS assays are manufactured by Binding Site with commitment to excellent quality.
- Automatic antigen excess check for the **Freelite** assays.
- Fail-safe assay start mechanism and expired reagent lock out system give complete confidence in results.

Easy to use

- Assay specific magnetic swipe card is pre-programmed with calibration curve, assay parameters, pipetting volumes and reagent lot numbers.
- Bright, easy to view back-lit screen with user instructions in a choice of six languages.
- Integrated electronic pipette utilises pre-programmed aspiration volumes and single button functionality.

Accurate and precise results

- The final result is calculated taking the sample dilution into account.
- Temperature, reagent addition and assay times are controlled by the instrument enhancing the precision of each assay.

MININEPH™ PLUS specification

- Integrated electronic pipette included
- Optional thermal printer & barcode reader
- Measurement method is endpoint nephelometry
- Laser diode light source (670nm, <1mW-Class II)
- Dimensions (Analyser and pipette): W 240mm, D 280mm, H 360mm
- Weight (Analyser and pipette): 5.7kg
- Languages: English, French, German, Spanish, Portuguese, Italian
- Power requirements: 90-250V, 50-60Hz, 80VA



Swipe card



Pipette sample



Position cuvette



Aspirate reagents



Add reagents



Automatic result

MININEPH™ **PLUS** is optimised for Binding Site specialist protein assays

The MININEPHPLUS has been developed alongside Binding Site's Specialist Protein assays to form a strong combination with optimal assay precision and accuracy.

MININEPH™ **PLUS** and Freelite

International Myeloma Working Group guidelines recommend the use of Serum Free Light Chains in screening, at diagnosis, for prognosis and when monitoring patients with monoclonal gammopathies.¹ The exclusive combination of **Freelite** and MININEPHPLUS will enable laboratories with small serum free light chain workloads to provide this essential assay.

	Adult Normal Range (95 Percentiles)	Measuring Range	Standard Assay Dilution	Assay Sensitivity	Assay Duration	Pack Size	Code
Freelite κ	3.3 - 19.4 mg/L	3.02 - 72.4 mg/L	1/20	3.02 mg/L	150 seconds	2x15 test	VK016
Freelite λ	5.71 - 26.3 mg/L	4.91 - 98.3 mg/L	1/20	4.91 mg/L	150 seconds	2x15 test	VK018

MININEPH™ **PLUS** and IgG Subclasses

The measurement of IgG subclasses can be an important step in the diagnosis of primary antibody deficiencies.^{2,3} Levels of total IgG may be normal or even elevated in certain patients with an IgG subclass deficiency.

Patients with IgG subclass deficiencies usually present with recurrent infections of which sinusitis, bronchitis, pneumonia and otitis are the most common. The quantification of IgG subclasses can also be important in several other conditions including autoimmunity and infectious disease.

	Adult Normal Range (95 Percentiles)	Measuring Range	Standard Assay Dilution	Assay Sensitivity	Assay Duration	Pack Size	Code
IgG1	3730 - 9610 mg/L	1440 - 23000 mg/L	1/11	655 mg/L	118 seconds	10 test	ZK006.R
IgG2	2220 - 5740 mg/L	802 - 9625 mg/L	1/11	365 mg/L	208 seconds	10 test	ZK007.R
IgG3 (Latex)	286 - 1330 mg/L	76 - 1210 mg/L	1/121	6.9 mg/L	78 seconds	2x5 test	ZK008.L.R
IgG4 (Latex)	62 - 1127 mg/L	53 - 847 mg/L	1/121	2.2 mg/L	163 seconds	2x5 test	ZK009.L.R

Please see over for information on the other assays available on the MININEPHPLUS.

1. Dispenzieri A, *et al.* International Myeloma Working Group guidelines for serum-free light chain analysis in multiple myeloma and related disorders. *Leukemia* 2009; 23:215-224
2. De Vries, E. Patient-centred screening for primary immunodeficiency: a multi-stage diagnostic protocol designed for non-immunologists. *Clinical and Experimental Immunology* 2006; 145:204-214
3. Notarangelo L. D. *et al.* Primary immunodeficiencies: 2009 update. *J Allergy Clin Immunol* 2009; 124:1161-1178

MININEPH™ and other assays

PLUS

	Adult Normal Range (95 Percentiles)	Measuring Range	Standard Assay Dilution	Assay Sensitivity	Assay Duration (seconds)	Pack Size	Code
Albumin	35.7 - 49.4 g/L	7.1 - 90 g/L	1/121	0.3 g/L	58	25 test	ZK032.R
α-1 Antitrypsin	0.629 - 1.696 g/L	0.35 - 5.6 g/L	1/11	0.16 g/L	43	25 test	ZK034.R
Anti-Streptolysin O (Latex)	27 - 604 IU/mL	60 - 960 IU/mL	1/40	7.5 IU/mL	158	2x25 test	ZK189.L.R
Apolipoprotein A1	1.24 - 2.02 g/L	0.3 - 2.4 g/L	1/30	0.05 g/L	188	25 test	ZK085.R
Apolipoprotein B	0.43 - 1.40 g/L	0.37 - 5.85 g/L	1/30	0.06 g/L	208	25 test	ZK086.R
β2 Microglobulin (Latex)	1.22 - 2.46 mg/L (S) <0.03 - 0.23 mg/L (U)	0.75 - 12.0 mg/L	1/40	0.2 mg/L (S) 0.075 mg/L (U)	148	2x10 test	ZK043.L.R
Caeruloplasmin	0.204 - 0.407 g/L	0.14 - 2.26 g/L	1/11	0.06 g/L	178	25 test	ZK045.R
C1 Inactivator (R)	Not Stated	0.075 - 0.90 g/L	1/1	0.075 g/L	88	25 test	ZK019.R
C3	0.89 - 1.87 g/L	0.275 - 4.44 g/L	1/11	0.125 g/L	28	50 test	ZK023.R
C4	0.165 - 0.380 g/L	0.077 - 1.232 g/L	1/11	0.035 g/L	58	50 test	ZK025.R
CRP (Latex)	<3.8 mg/L	3.5 - 112 mg/L	1/40	0.44 mg/L	58	2x25 test	ZK044.L.R
Haptoglobin	0.334 - 1.532 g/L	0.24 - 3.89 g/L	1/11	0.11 g/L	58	25 test	ZK058.R
IgG	6.56 - 13.51 g/L	2.0 - 25 g/L	1/11	0.9 g/L	85	50 test	ZK004.R
IgA	0.86 - 3.20 g/L	0.37 - 5.94 g/L	1/11	0.17 g/L	55	50 test	ZK010.R
IgM	0.349 - 2.555 g/L	0.25 - 4.0 g/L	1/11	0.25 g/L	175	50 test	ZK012.R
Microalbumin	<14.9 mg/L (U)	15 - 235 mg/L (U)	1/1	15 mg/L (U)	178	25 test	ZK032.U.R
Prealbumin	0.248 - 0.372 g/L (M) 0.216 - 0.328 g/L (F)	0.06 - 0.93 g/L	1/11	0.03 g/L	358	25 test	ZK066.R
Rheumatoid Factor (Latex)	<19 IU/mL	31 - 500 IU/mL	1/40	8.6 IU/mL	98	2x25 test	ZK151.L.R
Transferrin	2.24 - 4.06 g/L	0.40 - 6.4 g/L	1/11	0.18 g/L	28	25 test	ZK070.R

This is a guide only - please refer to the product inserts for full technical information.

(S) = Serum, (U) = Urine, (M) = Male, (F) = Female, (R) = Research Use Only

Description	Pack	Code
MININEPH ^{PLUS}	1	AD500
MININEPH ^{PLUS} On-Board Buffer 1	1x45 mL 4x45 mL	SN107.1 SN107.4
MININEPH ^{PLUS} Accessory Pack Cuvettes, Stirring bars, Sample Diluent	200	ZK500.R
MININEPH ^{PLUS} Sample Diluent Pack	4x60 mL	ZK502.R
MININEPH ^{PLUS} Printer (optional)	1	AP1310DPKIT63
MININEPH ^{PLUS} Thermal Printer Paper	20	AO5856TPR1
Hand Held Barcode Reader (optional)	1	AD500.2
RS232 Null Modem Serial Cable		
9 pin to 9 pin	1	AD500.4
9 pin to 25 pin	1	AD500.5
For connection to non-Binding Site serial printers		

Kit contents

- Magnetic swipe card
- Antisera or latex reagents
- Reaction buffer or supplementary reagent
- High & low controls
- QC certificate
- Instruction booklet

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Literature not for use in USA.

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