

# MININEPH® PLUS

Assays and accessories



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MININEPH assays

These include high and low controls plus a magnetic swipe card containing the lot-specific calibration curve and assay parameters.

DESCRIPTION	PACK	CODE
IgG kit Range 0.9-113.6 g/L	50 test	ZK004.R
IgG1 kit Range 655-115000 mg/L	10 test	ZK006.R
IgG2 kit Range 365-48125 mg/L	10 test	ZK007.R
IgG3 Latex kit Range 6.9-6050 mg/L	2x5 test	ZK008.L.R
IgG4 Latex kit Range 2.2-4235 mg/L	2x5 test	ZK009.L.R
IgA kit Range 0.17-27 g/L	50 test	ZK010.R
C1 Inactivator kit Range 0.075-9.9 g/L	25 test	ZK019.R*
C3 kit Range 0.125-8.88 g/L	50 test	ZK023.R
C4 kit Range 0.035-2.464 g/L	50 test	ZK025.R
α1-Antitrypsin kit Range 0.35-5.0 g/L	25 test	ZK034.R
Anti-Streptolysin-O Latex kit Range 7.5-10560 IU/mL	2x25 test	ZK189.L.R
β2-Microglobulin Latex kit Range 0.075-132 mg/L	2x10 test	ZK043.L.R
C-Reactive Protein Latex kit Range 0.44-1232 mg/L	2x25 test	ZK044.L.R
Caeruloplasmin kit Range 0.14-1.64 g/L	25 test	ZK045.R
Haptoglobin kit Range 0.11-42.79 g/L	25 test	ZK058.R
Microalbumin kit Range 15-2585 mg/L	25 test	ZK032.U.R
Prealbumin kit Range 0.03-10.23 g/L	25 test	ZK066.R
Rheumatoid Factor Latex kit Range 8.6-5000 IU/mL	2x25 test	ZK151.L.R
Transferrin kit Range 0.18-70.4 g/L	25 test	ZK070.R

Accessories

DESCRIPTION	PACK	CODE
MININEPHPLUS Accessory Pack 200 x Cuvettes, 200x Stirring bars, 2x60 mL Sample Diluent	1	ZK500.R
MININEPHPLUS On-Board Buffer 1	1x45 mL 4x45 mL	SN107.1 SN107.4
MININEPHPLUS Sample Diluent Pack	4x60 mL	ZK502.R
MININEPHPLUS Printer (optional)	1	AP1310DPKIT63
MININEPHPLUS Thermal Printer Paper	20	AO5856TPR1
Hand Held Bar code Reader (optional)	1	AD500.2



& Radial Immunodiffusion assays

Bringing simplicity to a  
proven science.



\*For research use only.



The Digital RID Reader is designed to simplify & standardise the process of reading precipitin radial immunodiffusion rings.

Radial Immunodiffusion is a well-established technique based on the complex formed between antigen and antibody, producing a visible precipitin ring in the gel. The concentration of specific proteins can be determined efficiently and accurately by measuring the precipitin ring diameter using our RID reader.

The Binding Site provides a solution to determine the precipitin ring diameter using the RID Reader or a jewellers' eye piece. Using a range of quantitative calibration methods, the RID Reader provides a diameter reading tailored for each assay kit.

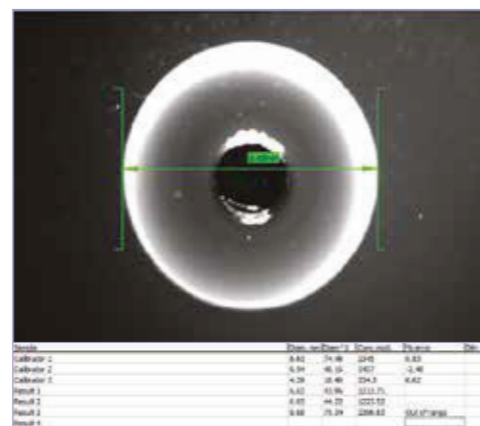
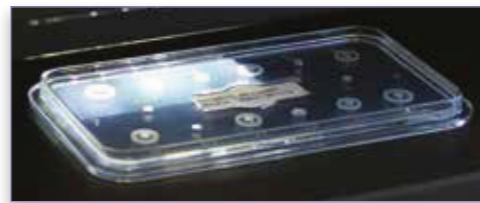
### Accurate and Efficient

- Accurate measurement of precipitin rings with enlarged imagery.
- Minimise error and save time associated with manual calculations.
- Reduces cost with RID Reference Table by maximising well use.
- Choose from 3 methods of curve calibration to suit your needs.
- Pre-enter data to generate calibration curve and final sample concentration accordingly.
- Storage capabilities useful for training traceability and quality control.

### RID Reader Technical Specification

Camera Specifications CCR Video System	Instrument weight 1.14kg
Light Source LED Array	Power Requirements 100/200v 50/60Hz, 0.6A 12V DC, 0.8A
Operating temperature 5 - 40°	Computer Requirements USB port, Windows 7 Windows 10
Dimensions Width 220mm Height 140mm Depth 160mm	

DESCRIPTION	PACK	CODE
Digital RID Plate Reader (RIDRead software included)	1	AD400
Replacement Bulb	1	AD001.1
Jeweller's Eye-Piece	1	AD040
LED Array Lamp	1	AD400.1



## Radial Immunodiffusion Assays

Radial Immunodiffusion (RID) is based on the complexing of antigen and antibody to produce a visible precipitin ring.

NANORID™ kits use a novel patented technology to enable accurate quantitation of very low concentrations of protein in biological materials. NANORID™ kits are ideal where increased sensitivity is required as latex enhanced antibodies are used.

BINDARID™ kits use conventional antibody antigen binding RID technology. This is the common method used for the Binding Site RID products.

Unless otherwise stated all assays are BINDARID™.

The procedures for three different methods are included in the instructions:

1. RID Reference Table (Mancini)
2. Complete Diffusion (Mancini)
3. Incomplete Diffusion (Fahey and McKelvey)

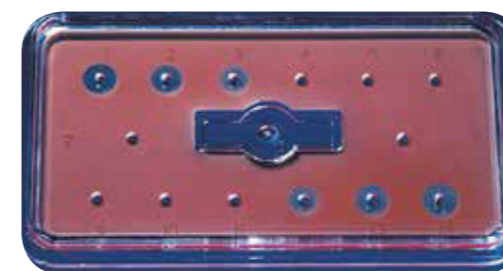
### Human Complement Functional Assays

Functional assays are effective as screening tools to detect complement deficiencies and aid in the monitoring of total complement activity. Assays are based on the haemolysis of red blood cells following activation of the complement system.

DESCRIPTION	PACK	CODE
Total Haemolytic Complement kit Maximum 12 weeks from manufacturing to expiry	3 plate kit 2 plate kit 1 plate kit	RC001.3 RC001.2 RC001.1
Alternative Pathway Haemolytic Complement kit Maximum 6 weeks from manufacturing to expiry	3 plate kit 1 plate kit	RC003.3* RC003.1*
Functional C1 Inactivator kit Maximum 12 months from manufacturing to expiry	3 plate kit	RC002.3
Functional C1 Inactivator COMBI kit Two plates of Functional C1 Inactivator, One plate of C1 Inactivator. Maximum 12 months from manufacturing to expiry	3 plate kit	RK019

### Human Coagulation Proteins

DESCRIPTION	PACK	CODE
Antithrombin III - NL RID kit Range 50-500 mg/L	3 plate kit	RN040.3
Fibrinogen - NL RID kit Range 450-4500 mg/L	3 plate kit	RN056.3
Plasminogen - NL RID kit Range 20-200 mg/L	3 plate kit	RN065.3
<b>NANORID™</b> Protein C RID kit Range 0.5-5.0 mg/L	3 plate kit	GT118.3



### RID kit contents

- RID Plates - 14 pre-cut wells per plate. Gel sectioning blades allow fewer than 14 wells to be used.
- Calibrators - Each kit contains either a single high calibrator or a 3 calibrator set.
- Controls - Control material is include in the majority of kits.
- Sample Diluent - Used to dilute samples, controls and calibrators where necessary; eliminates the possibility of viscosity differences causing inaccurate or incorrect results.
- Instruction Leaflet and Results Table - Full instructions are included together with a RID Reference Table containing protein concentration values for specific ring diameters.

### Human Complement Proteins

DESCRIPTION	PACK	CODE
C1 Inactivator - NL RID kit Range 45-450 mg/L	3 plate kit	RN019.3
C1q - NL RID kit Range 23-230 mg/L**	3 plate kit	RN020.3
C2 - NL RID kit Range 7.2-36 mg/L	3 plate kit	RN022.3
C3 - NL RID kit Range 155-1550 mg/L	3 plate kit	RN023.3
C4 - NL RID kit Range 58-580 mg/L	3 plate kit	RN025.3
C4 - Binding Protein - NL RID kit Range 50-500 mg/L	3 plate kit	RN026.3*
C5 - NL RID kit Range 20-200 mg/L	3 plate kit	RN027.3
C6 - NL RID kit Range 12-120 mg/L	3 plate kit	RN102.3*
C7 - NL RID kit Range 22-110 mg/L	3 plate kit	RN103.3*
C8 - NL RID kit Range 20-200 mg/L	3 plate kit	RN089.3*
C9 - NL RID kit Range 50-500 mg/L	3 plate kit	RN028.3*
Factor B - NL RID kit Range 45-450 mg/L	3 plate kit	RN029.3
Factor H (β 1H) - NL RID kit Range 70-700 mg/L	3 plate kit	RN030.3*
Factor I - NL RID kit Range 7-70 mg/L	1 plate kit	RN031.1*

\* For research use only.  
\*\* Diluted sample applied - assay range may be extended using neat sample.  
See page 9 for the CH50 SPAPLUS assay and page 4 for the CH50 Optilite assay.

# Radial Immunodiffusion Assays

## Human Proteins

DESCRIPTION	PACK	CODE
Albumin - NL RID kit Range 5000-50000 mg/L**	3 plate kit	RN032.3
Albumin - ML RID kit Range 16-160 mg/L	3 plate kit	RL032.3*
$\alpha$ 1-Antitrypsin - NL RID kit Range 280-2800 mg/L	3 plate kit	RN034.3
<b>NANORID™</b> $\beta$ 2-Microglobulin - EL RID kit Range 1-10 mg/L	3 plate kit	GT043.3
Haptoglobin - NL RID kit Range 190-1900 mg/L	3 plate kit	RN058.3
<b>NANORID™</b> Lysozyme - NL RID kit Range 1.05-10.5 mg/L	3 plate kit	GT073.3
Transferrin - NL RID kit Range 440-4400 mg/L	3 plate kit	RN070.3

\* For research use only.

\*\* Diluted sample applied - assay range may be extended using neat sample.

Manufacturing date to expiry ranges from 13 to 26 months, unless otherwise stated.

## Human Immunoglobulins

DESCRIPTION	PACK	CODE
IgG - NL RID kit Range 2250-22500 mg/L	3 plate kit	RN004.3
IgG - ML RID kit Range 18-180 mg/L	3 plate kit	RL004.3*
IgG1 Subclass - SD RID kit Range 1400-14000 mg/L**	3 plate kit	RN106.3
IgG2 Subclass - SD RID kit Range 800-8000 mg/L**	3 plate kit	RN107.3
IgG3 Subclass - SD RID kit Range 120-1200 mg/L	3 plate kit	RN108.3
IgG4 Subclass - SD RID kit Range 50-500 mg/L	3 plate kit	RN109.3
IgG Subclass COMBI - SD RID kit One plate each of IgG1, IgG2, IgG3 and IgG4	4 plate kit	RK021
IgA - NL RID kit Range 545-5450 mg/L	3 plate kit	RN010.3
IgA - ML RID kit Range 8.5-85 mg/L	3 plate kit	RL010.3*
<b>NANORID™</b> IgA - UL RID kit Range 0.43-4.3 mg/L	3 plate kit	GL010.3*
IgA Subclass COMBI kit - NL RID kit Two plates each of IgA1 and IgA2 IgA1 Range 640-6400 mg/L** IgA2 Range 50-500 mg/L**	4 plate kit	RK015
Secretory IgA - NL RID kit Range 45-450 mg/L	3 plate kit	RN148.3*
IgM - NL RID kit Range 265-2650 mg/L	3 plate kit	RN012.3
IgG, IgA, IgM COMBI - NL RID kit One plate each of IgG, IgA and IgM	3 plate kit	RK002
IgD - NL RID kit Range 8.5-85 mg/L	3 plate kit	RN013.3

