

# Digital Radial Immunodiffusion (RID) Plate Reader



For easy,  
economical & accurate  
measurement of radial  
immunodiffusion  
rings

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# Radial Immunodiffusion (RID) Plate Reader

The Binding Site Digital RID Plate Reader is a small, economical, user friendly instrument for the accurate measurement of radial immunodiffusion rings.

- It uses advanced video technology
- Requires very little maintenance
- The *RIDREAD* software is simple to use



# What is Radial Immunodiffusion (RID)?

Radial Immunodiffusion (RID) is a well-established technique based on the complexing of antigen and antibody to produce a visible precipitin ring in a gel. The concentration of specific proteins can be determined quickly and accurately by measuring the ring diameters of the precipitin rings.



## Advanced Technology

The Digital RID Plate Reader has a built-in video camera that transmits clear images of RID rings directly to your computer screen.

You can mark two opposite points on the edge of the RID ring on the screen and automatically record the ring diameter.

## Accurate and Efficient

Enlarged images allow you to obtain accurate ring measurements and the rapid measuring method enables faster reading of large numbers of RID plates.

The automatic data generated greatly reduces the amount of time needed to obtain sample concentrations and eliminates the errors associated with manual calculations.

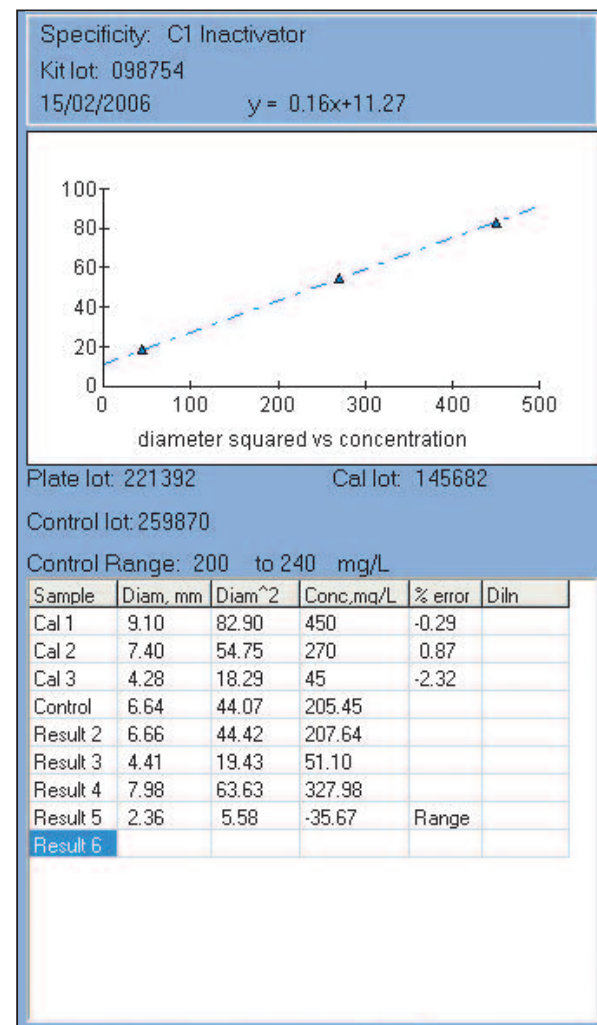


The flexibility of the *RIDRead* software allows you to choose from 3 different calibration curves when calculating results:

- A linear curve is used if accuracy is of primary importance
- Choose a binomial curve if results are required quickly (uses a Fahey method)
- A point-to-point curve is used for functional complement assays

The calibrator values are entered prior to the ring diameters being measured. The calibration curve is then generated automatically. Sample dilutions can be entered before ring measurement so data manipulation by the user is not necessary, and final sample concentrations are calculated instantly.

Data, curves and images can be stored for future use.



RID Reference Table for Human Complement C6 ' NL'  
Concentration in mg/L

Diameter of Ring	Concn.
4.5mm	4.18
4.6	5.92
4.7	7.69
4.8	9.50
4.9	11.4
5.0	13.2
5.1	15.2
5.2	17.1
5.3	19.1
5.4	21.2
5.5	23.2
5.6	25.4
5.7	27.5
5.8	29.7
5.9	31.9
6.0	34.2
6.1	36.5
6.2	38.9
6.3	41.2
6.4	43.7
6.5	46.1
6.6	48.6
6.7	51.2
6.8	53.7
6.9	56.3
7.0	59.0
7.1	61.7
7.2	64.4
7.3	67.2
7.4	70.0
7.5	72.8
7.6	75.7
7.7	78.6
7.8	81.6
7.9	84.6
8.0	87.6
8.1	90.7
8.2	93.8
8.3	96.9
8.4	100
8.5	103
8.6	107
8.7	110
8.8	113
8.9	117
9.0	120
9.1	123
9.2	127
9.3	130
9.4	134
9.5	138

Alternatively, in all Binding Site quantitative RID kits, a table of ring diameters and the corresponding protein concentrations is provided.

The *RIDRead* software enables a calibration curve to be generated using values from this RID Reference Table.

Sample results can be calculated without assaying all three calibrator dilutions, maximising the number of wells used for samples on each RID plate.



# Binding Site Radial Immunodiffusion Kits



Binding Site offers a wide range of radial immunodiffusion kits which can be used in conjunction with the Binding Site Digital RID Plate Reader.

These include quantitative assays for immunoglobulins, complement proteins, coagulation and other human serum proteins plus assays for assessment of functional complement proteins.



Want more information on  
RID kits?

**Catalogue**

(please see RID section)



Want more information on  
technical specifications of the  
Digital RID Plate Reader?

**[www.bindingsite.com](http://www.bindingsite.com)**



Or

**Contact**

your local representative

