

Antibody concentration vs titer:

Concentration and titer are not equivalent. Concentration is the total amount of Ab without regard of its function. Only a percentage of [Ab] represent the intact, active and functional Ab with regard to its ability to bind the Ag.

The titer is the highest dilution of the Ab that yields a response in the immunoassay and reflects its activity.

The determination of [Ab]:

At A280nm, 1% IgG (i.e. 10mg/ml) =reading 13.5

Thus, suppose you dilute 10 μ l of purified IgG solution in 1ml water (i.e. 1:100) and after blank it to water, the reading at 280nm was **0.0757**

Thus, 0.0757×100 (dilution factor) = 7.57

And since 13.5 = 10mg/ml

Thus, 7.57 = ? mg/ml

? = **5.61mg/ml**