

Technical Note

Turbidity and colour of Green Diluent

Green Diluent is a component of all QuantiFERON® ELISA products, and is used in conjunction with the kit standard or patient samples.

Green Diluent is used as a blocking reagent to minimise non-specific binding in the ELISA—thus reducing background interference and increasing the signal-to-noise ratio in an extremely sensitive detection system.

In addition, the use of Green Diluent serves to eliminate heterophilic antibody interference. Heterophilic antibodies are endogenous antibodies in the patient's plasma which may bind to antibodies used in immunoassays and thus produce erroneous results, and may result in misclassifying samples.

To remove the effect of heterophilic antibodies, Green Diluent contains bovine casein and normal mouse serum. Both ingredients are biological products which are subject to normal biological variations. These variations may result in differences in turbidity and colour variation of the product when compared to different lots. Sediment or flocculent precipitation may also be observed.

Visual variations of the Green Diluent—including differences in the shade of green colouration—do not have an effect on the assay's performance. Each lot of diluent is tested individually and in combination with the other components of the assay prior to its release, according to internal and external Quality Control testing requirements.



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