



Total IgA, IgG, IgM determination in rabbit serum

Introduction

Interest in developmental immunotoxicology has been stimulated following suggestions over recent years that xenobiotics may be capable of influencing the human immune system in such a way as to render the population more vulnerable to diseases.

The possible manifestations of immunotoxicity include reduced resistance to infectious diseases, more frequent virus-associated malignancies, increased susceptibility to allergy or idiopathic autoimmune diseases, drug-induced hypersensitivity and drug-induced autoimmunity.

Serum cytokine, immunoglobulin, autoantibody levels measurements are included among routine immune assessments in an ICH pre- and post-natal developmental toxicology study.

Aim of the study

The aim of the present study phase was to perform analyses to detect total IgA, IgG and IgM concentration in rabbit serum samples.

Analyte

Rabbit IgA, Rabbit IgG, Rabbit IgM



Methodology

ELISA methods for the quantification of IgA, IgG and IgM in rabbit serum samples

System Pregnant rabbit

Therapeutic area Autoimmune diseases

Development stage Preclinical

Regulatory compliance GLP

Customer A large pharma company focused on the development of drugs to treat immune disorders.

Results

Toxicokinetic data in pregnant New Zealand White rabbits treated every other day by subcutaneous route from day 6 to day 26 of pregnancy.

Three analytical ELISA methods to detect IgA, IgG and IgM in rabbit serum samples were set up and validated for application in PK/PD studies under GLP requirements.

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