



Serology Services

Serology is a simple and effective way to determine if animal health has been compromised, and often supplements comprehensive health monitoring. We offer a range of serology profiles for multiple species, allowing you to choose the best testing fit for your facility.

Charles River's serology laboratory detects antibodies to infectious agents in serum samples. Problematic pathogens are conveniently organized into profiles so you can customize your program. Individual agent screening is also available. In addition, we offer MFIA[®], ELISA, and IFA reagents for your in-house testing program. Please see *Serology Reagents* for a detailed description of these products.

MFIA[®] Platform

Our principal serology testing method is the Multiplexed Fluorometric ImmunoAssay[®] (MFIA[®]). Through the use of multiple antigen and controls, our Diagnostic Research and Development Team created the most comprehensive testing available utilizing the bead-based Luminex[®] platform: A validation report is available for review.

Multiple controls reinforce assay accuracy and reliability, providing an extra level of safeguarding. Two MFIA[®]-specific controls are the species IgG and the anti-species IgG. The species IgG is a system-suitability control that verifies with a positive reaction that the assay is working properly, and therefore limits the potential of reporting false-negatives due to technical error. The anti-species IgG is a sample-suitability control that verifies with a positive reaction that sufficient sample has been added to the test well. A negative anti-IgG reaction is indicative of a problem such as dilution error, incorrect sample species, or insufficient sample volume.

Additionally, we utilize the multiplex format to detect several strains of a single agent, providing more specific results. For example, rather than using one MHV Enzyme Linked Immunosorbent Assay (ELISA) plate to test the sample, three strain-specific MHV beads are incorporated into our profile at no additional cost to you.

Contact Charles River for further information about MFIA[®] testing, and to learn how serology can be incorporated into your health testing program.

To request free sample collection and shipping materials or a quote, visit www.criver.com/info/quotes.

MFIA[®] Features

- Ability to test multiple strains of a single pathogen
- System-Suitability Control: Species IgG
- Sample-Suitability Control: Anti-Species IgG

Confirmation Testing

- Free confirmatory testing for samples with inconclusive or unexpected results
- Free confirmation testing via IFA
- Confirmation testing by PCR may be requested for a fee

Sample Collection and Shipping Materials

- Sample collection vials and shipping materials are provided to clients free of charge

Species Tested

- Mouse
- Rat
- Guinea Pig
- Hamster
- Rabbit
- Gerbil
- Large Animal
- Other