

Newsletter No. 2 Immunoreagents



Forensic Research with reagents from Innovative Research

Innovative Research carries hard-to-find biological fluids for forensic research use including human and animal whole blood in large volumes.

US origin whole blood from different **animal species** like bovine, canine, chicken, goat, guinea pig, mouse, porcine, rabbit, rat and turkey; sheep whole blood and sheep defibrinated or lysed whole blood.

For **human** forensic research:

Pooled normal amniotic fluid, menstrual blood, nasal fluid, saliva, semen, sweat, tears, urine, cystatin C positive urine, second and third trimester pregnancy urine.

Normal **Single Donor** saliva, semen, tears, urine, whole blood,

peanuts allergy saliva, pregnancy saliva, postmenopausal urine, type I and type II diabetes urine.



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Therapeutic Drug or Drug of Abuse – Reagents for testing

Immunoassays for drug testing are generally divided into forensic (Drugs of Abuse/DOA assays) and clinical products (Therapeutic Drug Monitoring/TDM assays). Antibodies and antigens for both types of drug testing, qualitative (DOA) and quantitative (TDM) are available from Meridian Bioscience.

Drug abuse testing traditionally refers to the practice of testing for drugs including depressants, hallucinogens, CNS stimulants, opiates, cannabinoids, and phencyclidine. These tests have expanded in recent years to include screening in sports and the emergency room, testing in schools, at the workplace and in the military. In all of these areas, the testing method is qualitative only and is typically dependent on a saliva, urine, or hair sample. These types of assays are only designed to determine if an individual is taking DOA or non-prescribed medications.

Another use of drug testing is to monitor drug pharmacokinetics in order to help the physicians provide the best treatment to their patients. With most medications, a certain dosage level of the drug is required to obtain the desired effect. The goal of therapeutic drug monitoring is to optimize the dose for each patient. In this case, serum is typically the test sample. The results are quantitative and need to be accurate and precise over a large concentration range. These tests are designed for use in hospital laboratories.

Rubeola - Measles - Vaccination

Infections with Rubeola virus have an increase in the last months and have now developed into a subject of controversial debate about a general childhood vaccination. Meridian Bioscience manufactures proven, high quality antigens for measles titer assays. These antigens are used in commercial IgG capture assays for measles worldwide.

The titer assay is a blood test that measures the antibody titer (i.e. level of immunity) against measles.

This assay is required by many institutions and organizations, as a proof of a certain immunity level or vaccination against this disease.



MOSS-Link™ Conjugation and Labeling Kits

Produce your own IgG conjugates with the new MOSS Biotin Labeling or HRP- and RPE-IgG Conjugation Kits.

These kits utilize a **novel chemistry** to generate highly reproducible IgG conjugates with a simple procedure. The resulting conjugates are extremely stable and have a high activity. The incorporation of the conjugates is highly efficient so that a purification is usually not required. All kits are completely scalable for conjugates from 0.1 to 1 gram IgG per reaction. The performance of the products in the kits is guaranteed for a minimum of 12 months when stored as directed.



The **MOSS-Link™ Biotin Labeling Kit** contains pre-measured active biotinylation reagent coated onto a tube surface (stored at room temperature), quenching reagent and BSA solution (both stored at 2-8 °C). It can be used with up to 10 mg/ml (1%) BSA as carrier protein and the Biotin incorporation is highly efficient.

Moss-Link™ Biotin Labeling Kits are available in different package sizes: 2 tubes x 0.1 mg, 3 tubes x 0.1 mg, 10 tubes x 0,1 mg, 1 tube x 1.0 mg, 10 tubes x 1.0 mg.

The **MOSS-Link™ RPE Conjugation Kit** is an excellent kit for preparing bright, stable and reproducible antibody-PE conjugates for bead based immunoassays (also for multiplexing platforms like Luminex®) and high quality reagents for flow cytometry. The kit of choice for preparing a corresponding antibody-HRP conjugate, used in immunochemistry assays, is the **MOSS-Link™ HRP Conjugation Kit**.

The conjugates have greatly improved stability vs Lightning-Link™ and other conjugation chemistries.

Each conjugation kit includes all reagents needed to conjugate the stated amount of IgG for HRP at a HRP:IgG ratio of 4:1 and for RPE at a RPE:IgG ratio of 1:1. However, lower or higher ratios may give better results depending upon the antibody characteristics and the intended end-use. Conjugates for bead based immunoassay platforms may perform optimally at a different RPE:IgG molar ratio than conjugates used for flowcytometry, and conjugates for ELISA at a different HRP:IgG molar ratio than conjugates to be used for immunohistochemistry. You can customize the HRP:IgG or RPE:IgG ratio to create optimized conjugates for different applications.

Moss-Link™ RPE- and HRP Conjugation Kits are available in sizes of: 0.2 mg, 1 mg, 5 mg, 10 mg, and 100 mg.

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Immunology Consultants Laboratory, Inc.

Purified Cat and Horse **SAA proteins** are highly purified HIS tagged recombinant proteins from E. coli as control for ELISA and WB assays. SAA ELISA Kits for Cat, Chicken, Dog, Horse, Human and Mouse are available.

Further featured ELISA Kits: Bovine Haptoglobin, Chicken IgY, Dog CRP, Human Albumin, Human IgG, Human IgM, Mouse Albumin, Pig CRP and Rat Albumin.

Newest Antibodies: anti E. coli STX2 (Clone 3F11 and Clone 1F3), anti Human CK-MM and anti Human Granzyme B.



**Please contact us for further information or visit our homepage:
www.dunlab.de**