ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat # RFS-1 RF Absorbent for the removal of IgG in human plasma/serum **Size:** 1 ml

Rheumatoid Factors (RFs) were described as Immunoglobulins (IgGs) in rheumatoid arthritis as detected by agglutination of rabbit IgG coated erythrocyte. It was later demonstrated that RFs were IgM molecules reactive with the Fc-portion of the IgG from various species. In addition to the IgM RF, subsequent studies have identified RFs of other IgG subtypes (IgG, IgA, and IgE) in sera of patients with rheumatoid arthritis, and certain other chronic diseases. Most commercial assays measure predominantly IgM RFs. It has been observed that measurement of IgG RF may be a better indicator of rheumatoid arthritis than IgM RF. IgA RF and IgE RF have been implicated in articular disease process in rheumatoid arthritis and rheumatoid vasculitis, respectively.

Rf-Absorbent is for the removal of IgM rheumatoid factors from serum and plasma samples or cerebrospinal fluid (CSF) which are to be prepared for the detection of specific IgM antibodies in indirect immunoassays.

Note: Samples which are intended for the detection of pathogen-specific IgG antibodies are not to be treated with any Rf-Absorbent.

Form And Storage

1 vial contains 1 ml of processed anti-human-IgG immune serum from goats; with <0.1 % azide (for 100 tests). Rf-Absorbent is liquid and ready to use. Store at 2-8°C. Do not freeze.

Stability: 12 months

Principle

Rheumatoid factors are autoantibodies (anti-IgG) mainly of the IgM class and can be detected in serum of approximately 5 % of healthy individuals. False positive results may appear in the pathogen-specific IgM detection because of binding of IgM rheumatoid factors to IgG immune complexes. Furthermore, it is possible that weak-binding pathogen-specific IgM antibodies are displaced by stronger-binding IgG antibodies. In this case, IgM-detection can bring about false negative results. This Rf-Absorbent precipitates up to 15 mg IgG/ml (undiluted serum). The IgM rheumatoid factor binds to the precipitate. Consequently, the IgG antibodies as well as the IgM rheumatoid factors are not reactive in the immunoassay. The use of this Rf-Absorbent can minimize false positive as well as false negative results.

This product is for in vitro research use only

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Alpha Diagnostic Intl Inc., 4638 N Loop 1604 West, San Antonio, TX 78249, USA; **Email**: service@4adi.com
☎ (800) 786-5777; (210) 561-9515; **Fax**: (210) 561-9544; **Web Site**: www.4adi.com