

Certificate of Analysis

Product: Freund's adjuvant, Complete

Code: D614-0050

Lot # 20125

Size: 50 ml

Physical State: Liquid

Protein Concentration: Not determined

Composition: Special formulation of adjuvant containing paraffin oil, surfactant and heat-killed *Mycobacterium butyricum*.

Stabilizer: None

Preservative: None

Application(s): For the formation of water-in-oil antigen emulsions

Recommended Use(s): Freund's adjuvant may be used to form water-in-oil emulsions with antigens for the injection of immunogens for antibody production. Proper emulsion formation is essential and should be tested by observing a drop of the emulsion on the surface of water which should 'bead and not disperse. Antigens properly emulsified stimulate a strong and long-lasting immune response due to the slow release of antigen into the host's system.

Storage Conditions: Store vial at 4° C prior to opening. DO NOT FREEZE. Expiration date is one (1) year from date of opening.

Reference: Freund, J. and Mc Dermott, K., Proc. Soc. Exp. Bio. N.Y., **49**, 548 (1942).

Immunogen: Not applicable

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 326, Gilbertsville, Pennsylvania, USA.