Quality Adjuvants for Biomedical Research

The Ribi Adjuvant System (RAS) has earned a reputation for quality. The microbially derived products are produced by molecular engineering techniques, along with precise biochemical and physical-chemical fractionation procedures. Stringent quality control standards employed at Ribi ImmunoChem enable researchers to use these products with confidence. Information regarding purity and/or biological activity accompanies each shipment. Thin layer chromatography verifies purity of Trehalose Dimycolate (TDM) production samples compared to a known standard. Infrared spectroscopy (below) verifies identity of a TDM production sample.

Reduced Animal Trauma

Trehalose Dimycolate, Monophosphoryl Lipid A (MPL™) and Cell Wall Skeleton (CWS) are incorporated into emulsions containing 2% squalene (a metabolizable oil). Reactions at the injection site are minimized because the oil content is low, the adjuvants do not contain allergenic proteins and the products are detoxified where possible. Toxicity studies in mice and rats by an independent testing laboratory, operating under GLP regulations, confirmed that the use of RAS produces no lasting adverse effects. While RAS maintains powerful adjuvant activity, its benign nature is an important consideration to institutional animal welfare committees.

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ERRATUM IMMUNOMODULATORY COMPONENTS PRESENT IN IMREG-1, AN EXPERIMENTAL IMMUNOSUPPORTIVE BIOLOGIC

Due to a production error, Figure 3 in this research paper by Sudhir K. Sinha et al., (*Bio/Technology* **6**:810-815, July '88) was incompletely reproduced. The correct figure is shown below.

FIGURE 3 Effects of IMREG-1, and leu-enkephalin on antigen induced γ -IFN production by PBMCs obtained from a normal donor. Peripheral mononuclear cells from normal donors were incubated at 37°C for 5 days with 1.0 Lf/ml of tetanus toxoid and varying concentrations of leu-enkephalin or IMREG-1. The effects of these modulators on production of γ -IFN in response to tetanus toxoid are displayed in terms of NIH equivalent reference units for γ -IFN, and log molar concentrations in the cultures of leu-enkephalin or in the case of IMREG-1, Tyr-Gly contained in IMREG-1. In this study, each experimental point was run in duplicate, and was within 15% of its respective mean value.