ADAR BIOTECH

INSTRUCTIONS

AdaTR Adjuvant

(Cat. 5007-10mlx1, 10mlx5, 10mlx10)

ver. 1.1, 03.07

Introduction

AdaTR Adjuvant is a proprietary adjuvant mixture, formulated for the immunization of laboratory animals such as Mice and Rabbits. Composition is guaranteed to minimize stress to the animals by minimizing inflammatory responses, while maintaining excellent humeral immune response to antigen, resulting with the induction of high affinity and high titer antibodies.

AdaTR Adjuvant characteristics.

AdaTR Adjuvant contains several ingredients: squalene (a light, metabolizable oil) Hexadecane (Cetane) a heavy alkane hydrocarbon, proprietary Non-ionic detergent a novel nano-particles Micelle stabilizers and several additional proprietary compounds. AdaTR Adjuvant is capable of forming stable water in oil type of emulsions preferred for immunization purposes.

Interfering Reagents

Antigens rich in surfactants or having Urea content >4M or DMSO >20% may interfere with the emulsifying capacity of AdaTR Adjuvant.

Materials Needed

Two 1 ml all-plastic, or siliconized glass, luer lock syringes fitted with #18 gauge needles and 3-way Luer Lock.

Storage

Store AdaTR Adjuvant at 2-8 °C between uses.

Recommended Immunization Protocol

Best antigen concentrations are 1mg protein/ml or more. Please avoid EDTA and Azide in antigen. Urea is acceptable up to 4M concentration.

1. Remove AdaTR Adjuvant from refrigerator and shake several times to mix content.
2. Place 0.5 ml of AdaTR Adjuvant in a microtube.
3. Add equal volume of the antigen in suitable buffer (usually PBS or Saline) into microtube. Cap and shake the microtube by hand several times. A whitish emulsion will form.
4. Load syringe with microfuge mix, fit the second syringe with the 3-way Luer lock and mix content for about two minutes. A thick creamy mixture will form. Proceed to inject the animals according to the following guidelines:

Mice: for primary immunization and for the following boosts: 3 x injections of 30 µl (15ug antigen each) totaling 45 µg of antigen were found optimal. Sites of injections are subcutaneous (SC), intramuscular (IM) and intraperitoneal (IP). Optimal time between boosts is 2-3 weeks. Test for titers of antibodies at 6-10 weeks time after primary immunization.

Rabbit: for primary immunization and for the following boosts: 3 x injections of 150 µl (75 µg antigen in each) totaling 225 ug of antigen were found optimal. Sites of injections are Intradermal (ID) or intramuscular (IM). Optimal time between boosts is approximately 3 weeks. Test for titers of antibodies at 8-12 weeks time after primary immunization.