ABSTRACT

NON-TOXIC ADJUVANT FORMULATION COMPRISING A MONOPHOSPHORYL LIPID A (MPLA)-CONTAINING LIPOSOME COMPOSITION AND A SAPONIN

Provided herein is an adjuvant formulation comprising a monophosphoryl lipid A (MPLA)-containing liposome composition to saponin (e.g., QS-21), wherein the liposome composition comprises i) a lipid bilayer comprising phospholipids in which the hydrocarbon chains have a melting temperature in water of ≥ 23°C and ii) cholesterol at a mole percent concentration of greater than about 50% (mol/mol), preferably about 55% to about 71% (mol/mol), or more preferably about 55% (mol/mol). The adjuvant formulation displays minimal toxicity of either lipid A or saponin.

(FIG. 2)