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(54) Title: STABLE LIQUID PHARMACEUTICAL FORMULATION OF IGG ANTIBODIES

(57) Abstract: This invention is directed to a stable liquid pharmaceutical formulation comprising a high concentration, e.g. 50 mg/ml or more, of antibody in about 20-60 mM succinate buffer or 30-70 mM histidine buffer, having pH from about pH 5.5 to about pH 6.5, about 0.01-0.1 % polysorbate, and a tonicity modifier that contributes to the isotonicity of the formulation. This liquid formulation is stable at refrigerated temperature (2-8°C) for at least 1 year, and preferably 2 years. This liquid formulation is suitable for subcutaneous injection. This invention is exemplified by Daclizumab, a humanized anti-IL-2 receptor monoclonal antibody; HAIL-12, a humanized anti-IL-12 monoclonal antibody; HuEP5C7, a humanized anti-L selectin monoclonal antibody; and Flintozumab, a humanized anti-gamma interferon monoclonal antibody.