Claims

1. A stable antibody-containing liquid formulation, comprising at least 120 mg/ml antibody, 100 to 300 mM arginine and 10 to 50 mM methionine, wherein the immunoglobulin class of the antibody is IgG.

2. The formulation of claim 1 further comprising a histidine buffering agent.

3. The formulation of claim 1 or 2 further comprising a surfactant.

4. The formulation according to any of the preceding claims wherein the antibody is an anti-IL-6 receptor antibody.

5. The formulation according to any of the preceding claims wherein the antibody is a humanized antibody or human antibody.

6. The formulation according to any of the preceding claims further comprising tryptophan.

7. The formulation according to any of claims the preceding claims having the pH in the range from 4 to 8.

8. The formulation according to any of the preceding claims having a viscosity of from 2 to 15 mPa·s.

9. The formulation according to any of the preceding claims, which is stable at 22-28°C for at least 6 months.

10. The formulation according to any of claims 1 to 8, characterized in that dimerization of antibody molecules is inhibited.

11. The formulation according to any of claims 1 to 8, characterized in that deamidation of antibody molecules is inhibited.

12. The formulation according to any of claims 1 to 8, which is for subcutaneous administration.

13. The formulation according to any of claims 1 to 8 which has not been subjected to lyophillization during preparation of the formulation.

14. A method for inhibiting dimerization of molecules of an IgG antibody in a liquid formulation containing the IgG antibody, comprising adding arginine and methionine to the liquid formulation, wherein the formulation comprises at least 120 mg/ml antibody, wherein the arginine is added to the formulation in the amount of 100 to 300 mM, and the methionine in the amount of 10 to 50 mM.

15. The method of claim 14, wherein the IgG antibody is the humanized anti-IL-6 receptor antibody MRA, and the formulation comprises 10 to 20 mM of a histidine buffering agent, and 0.005 to 3% (w/v) of polysorbate 80, and has a pH of 6 to 6.5.