**FTO Report**

**For CRO Co.**

**New Antibody Service Using SMALP**

**Brief Summary**

**Background of the project**

* 1. **Launch Status Assessment**

The object of this FTO report is therapeutic antibody discovery services for membrane proteins using the technology of Styrene Maleic Acid Lipo-Protein (SMALP). The client is *CRO Co*., British organization called *contract research organization*. The potential market for this discovery service application is the UK market. Therefore, this FTO report will be written based on the basic principle of Section 60 of the *UK Patent Act* regarding the respect of infringement.

* 1. Technical Feature

**Related Patents**

**2.1 Patent 4**

US 2012142861B2, SOLUBILISATION OF MEMBRANE PROTEINS

This patent is a method to solve the problem of how to solubilise a membrane protein. This method is applied to cellular materials including membrane proteins and related membrane lipids. A copolymer of styrene and maleic acid, in which the ratio of styrene to maleic acid is between 1:2 and 10:1, mixed with cellular materials to form soluble macromolecular assemblies of the copolymer, lipids, and proteins.

2.2 Patent 11

2.3 Patent 12

**Infringement Comparison**

3.1 not

Risk Aversion Suggestions

Conclusion