3 Objectives of the present work:

Thiocolchicoside is a gama-aminobutyric receptor agonist. It has recently been shown that thiocolchicoside activity can be described to its ability of interacting with strych-nine sensitive glycine receptors & therefore that compounds endowed with the glycino-mimetic activity can be used in rheumatologic-orthopedic field for their muscle relaxant properties. It is widely prescribed for treatment of muscle spasm, cramps, musculoskeletal & neuromuscular disorder.

Thiocolchicoside is available in market in the form of Tablet, Capsules, Gel and Injection. The major problem associated with Thiocolchicoside is its bioavailability which is very low i.e. 25% only due to the first pass metabolism of drug. To overcome problem associated with low bioavailability drug, to achieve the desired therapeutic concentration and to achieve the ease of applicability, there is need to formulate Topical preparation which have better therapeutics outcome compared to gel formulation. To achieve following desired product profile, Spray dosage form of Thiocolchicoside are required to give the smooth muscle relaxation,

- Avoid first pass liver metabolism,
- Acute relief from the disease condition,
- For onset of action,
- Local action and topical treatment,
- To target the specific area of disease conditions
- Better patients compliances
- Low dose drug delivery
- Better treatment option
- To improve the bioavailability