PLAN OF WORK

1. Review of literature
2. Collection and preparation of starting material
3. Method development for egg yolk fractionation to separate the egg yolk powder and the egg oil.
4. Performing preliminary identification tests and TLC.
5. Characterization of the egg yolk powder using standard methods
6. Purification and Decholesterization of Egg cholesterol from the egg oil
7. Preparation of formulation containing isolated pure egg lecithin.
8. Pharmacological evaluation of formulation containing isolated pure egg lecithin.

METHODOLOGY

Review of literature
This will be a continuous process from starting till the finalization of the work. The sources utilized would be Books, Standards like IP, USP, Extra Pharmacopeia WHO guidelines etc., Journals including National and International, Patent, historically established and Internet.

Collection and preparation of starting material
It is planned to collect the natural drug material from a reliable source and checked cautiously as per the need. Starting material will be separated and then preserved in alcohol for improved shelf life of the constituents

Method development for egg yolk fractionation to separate the egg yolk powder (Lecithin) and the egg oil.
To prepare egg yolk fractionate extract various solvents like Polar and Non polar solvents will be used either in single or in certain combination to separate the egg yolk powder and the egg oil.

Performing preliminary identification tests and TLC.
Qualitatively analyze them for the types of constituents
Characterization of the isolated egg lecithin using standard methods
Characterization of Constituents of egg lecithin extract by using various standard methods as per references and sophisticated analytical instruments. This will be done with an intention to confirm the isolated compound is egg lecithin and of good quality and quantity.

Purification and Decholesterization of Egg cholesterol from the egg oil
The egg oil will be purified and will also be decholesterized to improve the egg oil quality using chromatography, basic methods of lipid purification and even sophisticated instruments to enhance the purification process.

Preparation of formulation containing isolated pure egg lecithin.
The formulation of the isolated pure egg lecithin will be done with an intention to ensure the pharmaceutical compatibility of the isolate for oral use.

Pharmacological evaluation of formulation containing isolated pure egg lecithin.
This will be finally done with an intention to confirm the isolated pure egg lecithin is supported with the pharmacological data for lecithin reputed use. Also the activity can give better options for its commercial use in near future research.