3. **OBJECTIVE**

The formulation of an oral disintegrating tablet for a bitter drug is a challenging task for a formulation scientist. Oral Disintegrating Tablets (ODT) were kept on tongue where they rapidly get disintegrate and dispersed in saliva, resulting in a solution or suspension and feel intensely bitter.

In general, Mostly Artemether and Lumefantrine are drugs for pediatric as well as geriatric formulation and it is difficult to give drug to the children with a glass of water; hence it is beneficial to administer such drugs as ODTs. Also fast disintegration will reduce any potential choking hazard and will also make it harder to spit out the dosage form. Most of anti malarial drugs are intensely bitter drug; hence, if it is incorporated directly into an ODT the main objective behind formulation of such a dosage form will definitely get futile. This is because when bitter drugs incorporated in this formulation, it comes in contact with salivary fluids and feels bitter.

The taste and texture of pediatric formulations are critical to facilitate compliance in children since children are more sensitive about the sense of taste than adults. So masking of bitter taste in the formulation is a prerequisite as it improves the compliance of the patient and product value. There are numerous approaches investigated by the researchers to mask the bitter taste of drug. The ideal solution to reduce or inhibit bitterness is to prevent the release of drug in saliva or/and to use artificial sweeteners and flavors.

Many polymer carriers can be used for coating or complexing the drug and thus preventing the drug release in saliva so as to mask the bitter taste of drug.