



Original Research Article

FORMULATION DEVELOPMENT AND EVALUATION OF LOZENGES CONTAINING
POLYHERBAL EXTRACT OF *CINNAMOMUM TAMALA* AND *SPILANTHES ACMELLA*

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Abstract In recent year, the growing demand of herbal has lead to a quantum jump in a volume of plant material traded within and across the country. *Cinnamomum Tamala* and *Spilanthes Acmella* is an important medicinal plant, commonly known as Tejpatta (*Cinnamomum Tamala*) and Akarkara (*Spilanthes Acmella*) which rich source of therapeutic constituent. The aim of this research to develop of modern dosage form such as lozenges associated with an extended period of local remedy with beneficial therapeutic effect. The combination of *Cinnamomum Tamala* leaves and *Spilanthes Acmella* flowers extract exhibit antimicrobial property against the selected microorganism (*staphylococcus aureus*, *streptococcus mutans* and *Escherichia coli*). The qualitative Phytochemical screening of ethanol, methanol and petroleum ether extracts of both *Cinnamomum Tamala* leaves and *Spilanthes Acmella* flowers extract was performed and confirmed the presence of many phytochemicals like alkaloids, flavonoids, glycosides and triterpenes .

From the result obtained it can be concluded that the optimized formula F3 was selected for the formulation of tablet lozenges and was prepared by direct compression method which exhibit optimum friability, weight uniformity, hardness and disintegration time.

Keyword:- *Cinnamomum Tamala* and *Spilanthes Acmella* extract, antimicrobial evaluation, Phytochemical screening, lozenges, evaluation parameter.

Introduction: Herbal Medicine is as ancient as the history of mankind with well researched

record. Today many consumers believe that herbal medicines are safe because they are more natural than prescription drug.

Cinnamomum Tamala which is an evergreen tree up to 8 m in height is also cultivated. Natural habitat is in the tropical and subtropical Himalayas at altitudes of 900-2500 m.[1] The essential oil from leaves of the tree is known as Tejpat oil. This essential oil is used in the

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Received on: January 2020

Accepted after revision: February 2020

DOI: 10.30876/JOHR.9.1.2020.01-10

