

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511069123 A

(19) INDIA

(22) Date of filing of Application :20/07/2025

(43) Publication Date : 08/08/2025

(54) Title of the invention : REFRESHING EFFERVESCENT TABLETS AND PREPARATION METHOD THEREOF

<p>(51) International classification :A61K9/20, A61K36/82, A61K47/26, A61K47/12, A61K31/353, A61K9/46, A23P10/28, A61P10/40</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)K. R. Mangalam University</b> Address of Applicant :Sohna Road, Gurugram, Haryana -122103, India Sohna -</p> <p>-----</p> <p><b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor : <b>1)Dr. Hema Chaudhary</b> Address of Applicant :Professor, School of Medical &amp; Allied Sciences, K.R. Mangalam University, Sohna Road, Gurugram, Haryana, India-122103 Sohna -----</p> <p><b>2)Dr. Mohd. Mazhar</b> Address of Applicant :Assistant Professor, Department of Pharmacology, School of Medical &amp; Allied Sciences, K.R. Mangalam University, Sohna Road, Gurugram, Haryana, India-122103 Sohna -----</p> <p><b>3)Dr. Prateek Girotra</b> Address of Applicant :Acropolis Hospital, Opposite Chinar Garden, Sector-69, Gurugram, Haryana, India-122101 Gurugram -----</p> <p><b>4)Dr. Charu Chhabra (PT)</b> Address of Applicant :Department of Physiotherapy, Jamia Hamdard, New Delhi, Delhi, India-110062 New Delhi -----</p> <p><b>5)Nisha</b> Address of Applicant :Research Scholar, K.R. Mangalam University, Sohna Road, Gurugram, Haryana, India, 122103 Sohna -----</p> <p><b>6)Khushboo</b> Address of Applicant :Shiv Colony, Sohna, Gurugram, Haryana, India, 122103 Sohna -----</p> <p><b>7)Anushka Bhardwaj</b> Address of Applicant :Research Scholar, K.R. Mangalam University, Sohna Road, Gurugram, Haryana, India, 122103 Sohna -----</p>
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(57) Abstract :

The present invention relates to a palatable effervescent tablet composition comprising lyophilized green tea (Camellia sinensis) extract, a natural sweetener stevia, and one or more effervescent agents selected from citric acid, tartaric acid, sodium bicarbonate, and sodium carbonate. The invention addresses the problem of bitterness and astringency associated with green tea consumption by incorporating stevia to mask undesirable taste without compromising therapeutic efficacy. The tablets are formulated using a direct compression technique and optimized for effervescence time, mechanical strength, and stability. Phytochemical evaluation confirms retention of bioactive catechins, particularly (-)-epigallocatechin-3-gallate (EGCG), ensuring antioxidant efficacy equivalent to traditionally brewed green tea. The invention provides a convenient, sugar-free, and user-compliant nutraceutical dosage form suitable for regular consumption and industrial manufacturing.

No. of Pages : 13 No. of Claims : 6