

ORIGINAL RESEARCH ARTICLE FOR VARIETY REGISTRATION

CIM-Unnati: An essential oil rich variety of menthol mint (*Mentha arvensis* L.)

VENKATESHAKT^{1*} • VED R SINGH² • RAJENDRA C PADALIA¹ • RAKESH K UPADHYAY¹ • AMIT CHAUHAN¹
• AMIT K TIWARI¹ • SONVEER SINGH¹ • GUNJAN BHATT¹ • DIVYA¹ • PRAGYA PANDEY¹ • RAM S VERMA²
• MANEESHA MALL² • ASHUTOSH K SHUKLA² • CHANDAN S CHANOTIYA² • SANJAY KUMAR²
• BIRENDRA KUMAR² • ANIL K GUPTA² • RAJESH K VERMA² • ABDUL SAMAD² • PANKAJ KUMAR¹
• MOHIT C RAWAT¹

Article History

Received: April 10th, 2020

Revised: June 18th, 2020

Accepted: June 20th, 2020

Key Words

CIM-Unnati

DUS criteria

Essential oil

Mentha arvensis

Menthol

Menthol mint

ABSTRACT

Menthol mint (Mentha arvensis L.) is cultivated commercially for extraction of essential oil from upper ground herbage (leaves + stem). The essential oil of menthol mint is mainly used for production of menthol and the by-product dementholised oil (DMO) that find extensive applications in pharmaceutical and cosmetic industry. A new genotype of menthol mint MASP-19, now christened as CIM-Unnati, has been developed by CSIR-CIMAP through intensive breeding efforts for improved essential oil yield. The new variety CIM-Unnati consistently recorded higher essential oil yield over the commercial checks during field evaluation trials. The new variety has a potential to produce 185-190 q/ha herbage that can give an essential oil yield of 185-190 litre/ha. The variety matures in 100-110 days after planting. The menthol content in the oil is hovers around 74.3 %, which is as per industry requirement. The distinct leaf morphology and high essential oil yield are the two important features of this variety. This variety also satisfies several DUS (Distinctness, Uniformity and Stability) criteria.