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(51) International classification	:C12N0001140000, G01N0033680000, A01N0063380000, C12Q0001689500, C12R00011885000	(71) Name of Applicant : 1)DR. YASHWANT SINGH PARMAR UNIVERSITY OF HORTICULTURE AND FORESTRY Address of Applicant :Dr. Y S Parmar University of Horticulture and Forestry, Nauni, Solan 173 230, Himachal Pradesh, India. SOLAN ----- 2)DR. BHUPESH KUMAR GUPTA Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : 1)PAAVAN KALYAN P Address of Applicant :JRF, Department of Plant Pathology, Dr. Y S Parmar University of Horticulture and Forestry, Nauni, Solan- 173230, Himachal Pradesh, India. SOLAN ----- 2)DR. BHUPESH KUMAR GUPTA Address of Applicant :Sr. Scientist, Department of Plant Pathology, Dr. Y S Parmar University of Horticulture and Forestry, Nauni, Solan- 173230, Himachal Pradesh, India. Solan ----- 3)DR. PANKAJ KUMAR Address of Applicant :Assistant Professor, Department of Biotechnology, College of Horticulture, Dr. Y S Parmar University of Horticulture and Forestry, Nauni, Solan- 173230, Himachal Pradesh, India. Solan ----- 4)DR. ANIL HANNA Address of Applicant :Professor, Department of Plant Pathology, College of Horticulture, Dr. Y S Parmar University of Horticulture and Forestry, Nauni, Solan- 173230, Himachal Pradesh, India. Solan ----- 5)DR. SALEJ SOOD Address of Applicant :Sr. Scientist, Crop improvement Division ICAR-CPRI, Bemlo, Shimla- 171001, Himachal Pradesh, India. Shimla ----- 6)DR. KAILASH CHANDRA NAGA Address of Applicant :Scientist, Plant protection division ICAR-CPRI, Bemlo, Shimla- 171001, Himachal Pradesh, India. Shimla ----- 7)DR. AJAY BRAKTA Address of Applicant :Assistant Professor, Department of Plant Pathology KV, Shimla- 171207, Himachal Pradesh, India. Shimla ----- 8)DR. BHAWNA DIPTA Address of Applicant :JRF, ICAR-CPRI, Bemlo, Shimla- 171001, Himachal Pradesh, India. Shimla -----
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(57) Abstract :

RAPID AND SENSITIVE DETECTION OF Trichoderma atroviride AND METHOD THEREOF The present disclosure relates to related a rapid and reliable method for detection of Trichoderma atroviride. Present invention not only provides a method for detection but also a kit comprising all the requisite components and reagents required to detect the T. atroviride as per the method of the instant invention. Further, the method of present invention and kit thereof not only provide the quantitative detection of the T. atroviride but also facilitates the qualitative analysis of the T. atroviride in the given sample. Moreover, present invention discloses a protocol to achieve improved band intensities of amplified DNA after performing PCR. This standardization and optimization have been achieved by using a number combination of additives after lots of permutations and combinations in PCR mix. The use of PCR mix of the present invention provides upto 25.56 % improved band intensity.

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