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(54) Title:

DIAGNOSTIC KIT FOR DETECTING MAIZE CHLOROTIC MOTTLE VIRUS AND SUGARCANE MOSAIC VIRUS AND METHOD THEREOF

(57) Abstract:

The present invention discloses a diagnostic kit for detection of Maize Chlorotic Mottle Virus (MCMV) and Sugarcane Mosaic virus (SCMV), comprising molecular beacons, biotinylated markers and primers. The invention also discloses a method for detecting MCMV and SCMV comprising steps of: isolating total RNA of a sample to be detected, carrying out enzymatic pre-diagnostic reaction with biotinylated markers wherein the biotinylated markers are MCMVCPI13FB, SCMVP3164FB, MCMVCPI13B and SCMVP3164RB, and judging whether the sample is positive for any of the two viruses. In addition, it discloses a confirmatory test method comprising steps of: carrying out a reverse transcription reaction on the total RNA from the sample, running a confirmatory qPCR test reactions by using specific primers of a SCMV and a MCMV at the same time, wherein the specific primers are MCMVP7b116F, SCMVP3164F, MCMVP7b116R and SCMVP3164R, judging conclusively whether the sample carries any or both the two viruses.