Gene Loci of Enzymes Related to Nitrogen Metabolic Pathways in Cotton Boll Rot Disease Pathogen

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Abstract: Studies on gene loci of molybdenum containing cofactor and other enzymes related to nitrogen metabolic pathway in "SC50" strain, isolate of *Fusarium moniliforme*, were carried out by physiological complement test with nit mutants. Complement analysis of forty two molybdenum containing cofactor mutants (nitB) revealed that at least seven different genes were involved. Likewise, the results of complement tests for all nitrate reductase mutants (nitA) and all nitrite reductase mutants (nitC) also revealed that there were more than one gene to control and regulate the enzymes both, nitrate reductase and nitrite reductase.

Key Words: *Fusarium moniliforme*; complement test; nit mutant; nitrogen metabolic pathway