

## I. Introduction

Cultivated peppers, Capsicum annuum, are attacked by about twenty viruses which cause mosaic symptoms. One of these, Pepper Mosaic, occurs widely in Trinidad where all the cultivated peppers examined showed vein banding. The virus causes vein banding on most cultivated peppers but a strong vein necrosis on the pepper variety Large Bell Hot. Recently a pepper developed in Puerto Rico by crossing a local variety with Californian Wonder has been claimed to be resistant to a mosaic of peppers in Puerto Rico (Riollano, Adsuar and Rodriguez, 1948). The Puerto Rican virus seems to be very close to the Trinidad virus because it causes identical symptoms on Large Bell Hot, as described by Nolla (1940).

The work is a continuation of that started by N.W. Simmonds (unpublished) from which he concluded that two unlinked loci showing reasonably complete dominance were concerned in the inheritance of these reactions to Pepper Mosaic. It was hoped in the present work to substantiate Simmonds' results and to clarify certain doubtful points.