

CONTENTS

Acknowledgement.	i
Chapter	
1. Introduction.	1
2. Materials and Methods.	13
3. Cultural Studies.	27
3.1. Selection of Suitable Culture Medium.	27
3.2. Influence of different hydrogen-ion Concentrations.	37
3.3. Influence of different Temperatures.	47
3.4. Influence of different Carbon Sources.	56
3.4.1. Utilization of Various Carbohydrates.	77
3.5. Effect of different amino acids as nitrogen source and their utilization.	89
3.6. Effect of different sulphur Sources.	120
3.7. Effect of hydrogen-ion concentration on utilization of Sodium Nitrite.	132
4. Solarization Studies.	137
4.1. Growth Study.	137
4.2. Rhizosphere Study.	145
4.3. Soil temperature rise during Solarization Studies.	148

4.4. Effect of Solarization on rhizosphere and non-rhizosphere Soil Microflora.	154
4.5. Management of wilt pathogen by providing organic amendment during Solarization.	157
5. Pathological Studies.	160
5.1. Morphological Studies.	160
5.2. Pathogenesity Tests.	164
5.3. Detection of Fusaric Acid.	167
5.4. Thermal Death Point.	168
6. General Discussion.	170
7. Summary.	179
8. Bibliography.	187
9. Appendix	