

RESEARCH ARTICLE

Biochemical studies on *Xanthomonas axonopodis* pv. *punicae* causing bacterial blight of pomegranate

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ABSTRACT

Bacterial blight caused by *Xanthomonas axonopodis* pv. *punicae* is the devastating disease of pomegranate. The pathogen strains were collected from predominant pomegranate growing areas of Karnataka to understand the existence of biochemical variability among the different isolates. Among 3 strains (Xap1-Raichur, Xap2- Bellary, Xap3-Koppal) Xap1 showed maximum starch hydrolysis, Xap3 liquified maximum gelatin and all the strains showed positive reaction for ammonia production, H₂S production, protein digestion. All the strains showed negative reactions for indole production, voges-poskaure test, nitrate reduction and methyl red test.

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