

**POLYMORPHIC PROFILES OF *Ganoderma* spp. ISOLATES FROM BANYUMAS, CENTRAL JAVA, INDONESIA**

<b>Title</b>	POLYMORPHIC PROFILES OF <i>Ganoderma</i> spp. ISOLATES FROM BANYUMAS, CENTRAL JAVA, INDONESIA
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<b>Accreditation</b>	1
<b>Abstract</b>	<p><i>Ganoderma</i> spp. are known as both beneficial and harmful fungi to humans. These are distributed worldwide in sufficiently high diversity. To generate a polymorphic profile and a genetic inter-relationship of several isolates of <i>Ganoderma</i> spp., a study was conducted using the Random Amplified Polymorphic DNA (RAPD) markers on <i>Ganoderma</i> spp. from Banyumas Regency, Central Java, Indonesia. The fruiting bodies of the collected <i>Ganoderma</i> spp. were first morphologically characterized, then analyzed using RAPD with four random primers, i.e., OPC-1, OPC-2, OPC-4, and OPC-5. The results revealed that the four primers generated polymorphic bands of the 10 samples with a polymorphism level of 100%, showing high genetic diversity. The level of genetic similarity ranged between 0.48 and 0.82, indicating moderate similarities among samples. The constructed dendrogram resulted in the grouping of the <i>Ganoderma</i> spp. isolates into three clusters at a similarity coefficient of 0.63, but neither according to geographical locations nor growth substrates.</p>
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