

Isolation and Characterization of Barley Mild Mosaic Virus(BaMMV-IK) in Korea

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Barley mild mosaic virus(BaMMV-IK) found in Iksan area was isolated, mechanical inoculated into barley cultivars, purified and antibody produced against BaMMV-IK. BaMMV-IK were purified from infected plants. It is a filamentous virus with 13nm in diameter and 240-300nm and 500-550nm in length. Specific antibody was produced by injecting the purified virus to a rabbit. Gel diffusion tests showed that antibody to BaMMV-IK did not make spur with two Japanese BaMMV strains and UK strains, BaMMV-Na1, BaMMV-Ka1 and BaMMV-UK. BaMMV-IK showed the symptom of yellowing but not necrosis in cv. Baedong. Mechanical inoculation tests proved difficult to other BaMMV strains. BaMMV-IK had two RNA, RNA 1(7.4kb) and RNA 2(3.4kb), and one coat protein(32KDa).