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SERENADE, *BACILLUS SUBTILIS* (STRAIN QST 713), BIOFUNGICIDE FOR MANAGEMENT OF MAJOR DISEASES OF CALIFORNIA WINE GRAPES

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Powdery mildew is a serious, recurrent disease of wine grapes in California. Bunch rot is also a serious disease, but is more geographically limited. In any given year these two diseases can attack a single crop, resulting in serious loss. For powdery mildew, a typical control program includes early-season applications of sulfur prior to bloom followed by a regime of synthetic fungicides up until veraison. Bunch rot is typically controlled by synthetic fungicides with bloom, preclosure, veraison, and occasionally, preharvest applications. Serenade is the only biofungicide with significant activity on both diseases. Serenade works via multiple modes of action with virtually no nontarget effects. It is ideally suited for both organic and IPM programs that employ an array of tools to control diseases. It provides growers attractive options with respect to both re-entry intervals (REI) and pre-harvest intervals (PHI). Serenade is an effective tool that can be used to reduce reliance on synthetic chemistry.