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Let k be an algebraically closed field of characteristic 2 and let G be a finite group. Let B be a block of the group algebra kG with dihedral defect groups and precisely two isomorphism classes of simple modules. The goal of this work is to find all indecomposable B -modules whose stable endomorphism ring is given by scalars and then determine their universal deformation ring. In this talk, we will discuss the initial findings of our work. (Received September 04, 2009)