## CHAPTER 3 EFFECT OF CHITOSAN ON THE GROWTH AND YIELD OF HALF-RED AMARANTH (Amaranthus gangeticus)

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## INTRODUCTION

Amaranthus gangeticus, is one of the most consumed vegetables in Malaysia and most parts of Asia. This vegetable is known as bayam separuh merah in Malaysia (Figure 3.1). A. gangeticus is easy to cultivate and is high in demand due to its affordable price. Amaranthus gangeticus also have multiple nutritional values such as vitamins, iron, magnesium, calcium and fibres (Muhd, 2016).



Figure 3.1: Amaranthus gangeticus (bayam separuh merah)

Amaranthus is a leafy vegetable known as *bayam* in Malaysia (Unal, 2014). It is also known as Amaranth (English), Amaranthe (Perancis), Kulitis (Filipina), Aopa (Papua New Guinea), Phtii (Cambodia),