Identification of botanical origin is one of most important honey quality parameters because chemical and nutritive characteristics depend mostly on it. Although the composition of unifloral honeys has been described in many studies, internationally accepted criteria and methods for authenticity have not yet been defined.

The aim of this research was to compare physicochemical characteristics of honeydew honeys originating from Croatia and Macedonia. Honeydew honey samples were collected during the seasons 2005 and 2006 and subjected to the melissopalynological analysis, and afterwards to physicochemical characterisation. Water
content, electrical conductivity, diastase and invertase activity, HMF after White, proline content, pH and acidity, specific rotation and sugar profile were analysed.