DETERMINATION OF PHENOLICS COMPOUNDS AND FLAVONOIDS IN THE ENERGY DRINK PREPARED WITH ADDED OF PROPOLIS EXTRACT

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Energy drink is defined as liquid compounds ready for consumption, constituted of carbohydrates, taurine, caffeine, glucuronolactone, inositol and B vitamins. In this study was developed a new process of extraction of propolis in order to be used in the drink, due to its high extract have of phenolics and flavonoids. The raw material propolis was crushed to production of the extract obtained by sub-product of the first extraction, various extraction methods were developed at varying temperatures and type of solvent in order to ensure the production of an extract with high content of bioactive compounds, which were determined by spectrophotometry. Based on these results, it can be observed that there was no significant difference in the content of phenolic compounds and flavonoids varied when the temperature keeping fixed the solvent. In relation of the kind of solvent used there were larger concentrations of compounds for the extract prepared with a solution of alcohol at a concentration of 70%, wherein the content of the compounds are in accordance with the rules Brazilian establishing the identity regulation and quality of the propolis extract, phenolics compounds: minimum 0.50% (w/w) and flavonoids compounds: minimum 0.25%