



International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555 Vol.10 No.4, pp207-212,2017

Formulation of air Freshener Gel with Carrageenan as Gelling Agent, Lemon Oil as Fragrance and Patchouli Oil as Binder

Rosemary Hutagaol*

Department of Pharmacy, Academy of Pharmacy Yayasan Tenaga Pembangunan Arjuna, Pintubosi, Laguboti, Toba Samosir, Sumatera Utara, 22381, Indonesia

Abstract: Freshener is a household product that can release the chemicals they contain into the air and inhaled by consumers which are intended to dampen bad smells inside the room so as to cause the room feels comfortable. Carrageenan is abundant in nature and are expanding when contact to water. The purpose of this research is to determine the ability of carrageenan to be formulated as a air freshener gelling agent with fragrance of lemon oil and binder of patchouli oil.

Gel formulation in the study was made from a mixture of carrageenan and sodium benzoate in distilled water at a temperature of 75oC and then added patchouli and citrus essential oil with a variety of different concentrations of 1%, 2% and 3%, then performed an evaluation form hedonic test gel with 15 panelists, evaporation of a liquid test during 4 weeks of storage.

The results of this study indicate that the best gel formula is the formula A3 with a carrageenan concentration of 3%. Results per cent of total evaporation of liquid air freshener gel formula are respectively 58.45%, 40.46%, 27.55%...

Keywords: Gel, room fragrances, Carrageenan, Orange Oil, Evaporation Test, Test passions.

Rosemary Hutagaol /International Journal of ChemTech Research, 2017,10(4): 207-212.
