

**ABSTRACT**

Effectivity of Ozone Decontamination Methode for Microbial Contaminant  
in raw material Cabe Jawa

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Medicinal plants have a high amount of microbial contaminant, which need to be controlled using suitable decontamination. Ozone is a suitable method for medicinal plant, because it is non-thermal method and non-residual method. The purpose of this research is to determine the effectivity of ozone decontamination for microbial contaminant in raw material and grinded raw material of *Piper retrofractum* Vahl. The sample was treated with ozone for 30, 36, 42, 48, 54 and 60 minutes then the microbial quality of the sample was examined for bacteria and fungi. The effectivity of the ozone decontamination determined by the treatment time that have 99 % bacteriocid effect from the initial microbial contaminant. The result was determined and concluded. The effectivity of ozone decontamination for bacterial contaminant in raw material was 54 minutes = 7,78 mg/l. The effectivity of ozone decontamination for fungus contaminant of raw material was 42 minutes = 6,91 mg/l. The effectivity of ozone decontamination in bacterial contaminant of grinded raw material was 48 minutes = 6,05 mg/l. The effectivity in fungus contaminant of grinded raw material was 42 minutes = 6,05 mg/l