

PENGARUH STERILISASI DENGAN OVEN PADA SUHU 140°C TERHADAP POTENSI NEOMISIN SULFAT DALAM SALEP MATA

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ABSTRAK

Telah dilakukan uji sterilitas dan uji potensi Neomisin Sulfat terhadap sediaan salep mata yang disterilkan dengan oven pada suhu 140°C selama 60 menit. Uji sterilitas menggunakan metode filtrasi membran dengan media Kasamino dan Tioglikolat. Media Tioglikolat yang telah ditanami setengah bagian membran yang telah digunakan untuk menyaring sampel diinkubasi pada suhu 35°C selama 7 hari, sedangkan media Kasamino yang telah ditanami setengah bagian membran yang telah digunakan untuk menyaring sampel diinkubasi pada suhu kamar yaitu 25°C selama 7 hari. Dari hasil uji sterilitas diperoleh bahwa sediaan tersebut steril. Daerah hambatan pertumbuhan *Staphylococcus epidermidis* pada pemberian sediaan yang telah disterilkan dengan oven pada suhu 140°C selama 60 menit dibandingkan dengan daerah hambatan pada pemberian sediaan yang belum disterilkan. Dari hasil yang diperoleh dapat disimpulkan sediaan yang telah disterilkan pada suhu 140°C selama 60 menit potensinya mengalami penurunan yang signifikan apabila dibandingkan dengan sediaan yang belum disterilkan.

Kata Kunci : salep mata, Neomisin Sulfat, sterilitas, potensi, *Staphylococcus epidermidis*

THE EFFECT OF STERILIZATION AT 140°C TEMPERATURE WITH OVEN ON THE POTENCY OF NEOMYCIN SULPHATE IN EYE OINTMENTS

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ABSTRACT

Sterility test and potency test has been performed on eye ointment preparation with active ingredients Neomycin Sulphate that was sterilized with oven at 140°C for 60 minutes. Sterility test was carried out using membrane filtration method with Soybean-Casein Digest and Thioglycolate medium. Thioglycolate medium which had been inoculated with half of the membrane that has been used to filter the samples were incubated at a temperature of 35°C for seven days, and Soybean-Casein Digest medium which had been inoculated with half of the membrane that has been used to filter the samples were incubated at room temperature is 25°C for 7 days. The results of sterility tests showed that the preparations were sterile. Growth inhibition zone of *Staphylococcus epidermidis* on the preparation that have been sterilized in an oven at a temperature of 140°C for 60 minutes was compared with inhibition zone of the preparation that have not been sterilized. The result indicated that the potency of Neomycin Sulphate that had been sterilized at a temperature of 140°C for 60 minutes had decreased significantly when compared with the preparation that have not been sterilized.

Keywords : eye ointment, Neomycin Sulfate, sterility, potency, *Staphylococcus epidermidis*,