

## Formulasi dan Uji Stabilitas Tetes Mata Sulfasetamida

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### Abstrak

Tetes mata sulfasetamida yang mengandung natrium sulfasetamida 10%, 15%, dan 30% telah dibuat dan disterilkan. Metode sterilisasi yang digunakan adalah uap air mengalir 98–100 °C, penyaring bakteri, dan autoklaf 120–121 °C selama 15 menit. Tujuan penelitian ini adalah mendapatkan sediaan yang paling stabil selama penyimpanan 28 hari. Semua sediaan diamati kejernihan, pH dan konsentrasi natrium sulfasetamida. Semua sediaan mengalami kenaikan pH. Kekeruhan terjadi pada sediaan yang disterilkan dengan autoklaf. Sediaan paling stabil adalah tetes mata yang mengandung natrium sulfasetamid 10% yang disterilisasi dengan penyaring bakteri.

**Kata kunci:** Natrium sulfasetamid, tetes mata, uji stabilitas

## Formulation and Stability Study of Sulfacetamide Eyedrops

### Abstract

Sulfacetamide eyedrops which contained 10%, 15%, and 30% of sulfacetamide sodium have been prepared and sterilized by three different methods. The sterilization method was flowing steam 98–100° C, bacteria filter, and autoclave 120–121 °C for 15 minutes. The objective was to obtain the most stable preparation during 28 days of storage. All preparations were evaluated for their clarity, pH, and the concentration of sulfacetamide sodium in 28 days. An increasing of pH was observed in all preparations. Turbidity was observed in preparations that were sterilized by autoclave. The most stable preparation was 10% sulfacetamide sodium eyedrops sterilized by bacteria filter.

**Keywords:** Eyedrops, sulfacetamide sodium, stability study