

ISOLASI DAN IDENTIFIKASI SAPONIN DARI ALOE BARBADENSIS MILLER SEBAGAI ANTIBIOTIK ALAMI : PENANGGULANGAN MASTITIS PADA SAPI PERAH

Indah Dwi Rahayu¹

¹Universitas Padjadjaran dan Universitas Jember, Jurusan Peternakan, Fakultas Pertanian, Universitas Muhammadiyah Malang, Jalan Karanganyar 1, Di Ponorogo, Jawa Timur 63213, Di Malang, Jawa Timur 64115, Email: indahdwi1997@gmail.com

ABSTRAK

The mastitis is dairy cattle is caused by *Staphylococcus aureus*. The bacteria are isolated from milk samples collected from *Aloe barbadensis* Miller. And has antibacterial, saponin isolated to explain saponin antibiotic. The research has concluded is most antibacterial activity of saponin by the growth of *Staphylococcus aureus*.

Saponin was extracted from gel of *aloe vera* leaf by 10% ethanol, 50% ethanol and is helped isolation of saponin used in the Gelatin Electrophoresis and Thin Layer Chromatography. It used "Lieberman-Burchard" reagent, which indicates and reflects acid color in identifying of saponin. These saponin preparation was obtained by chloroform 1:1 (mg/ml) gel 15 plates developed with solvent of hexane:ethyl acetate (2:1:4:4). The saponin's growth was produced by drying process, antibiotic or bacteria activity of 10%. The ratio of saponin and bacteria was 0.05%, 0.1%, 0.2%, 0.3%, 0.4%, 0.5%, 0.6%, 0.7%, 0.8%, 0.9%, 1%, 1.1%, 1.2%, 1.3%, 1.4%, 1.5%, 1.6%, 1.7%, 1.8%, 1.9%, 2%, 2.1%, 2.2%, 2.3%, 2.4%, 2.5%, 2.6%, 2.7%, 2.8%, 2.9%, 3%, 3.1%, 3.2%, 3.3%, 3.4%, 3.5%, 3.6%, 3.7%, 3.8%, 3.9%, 4%, 4.1%, 4.2%, 4.3%, 4.4%, 4.5%, 4.6%, 4.7%, 4.8%, 4.9%, 5%, 5.1%, 5.2%, 5.3%, 5.4%, 5.5%, 5.6%, 5.7%, 5.8%, 5.9%, 6%, 6.1%, 6.2%, 6.3%, 6.4%, 6.5%, 6.6%, 6.7%, 6.8%, 6.9%, 7%, 7.1%, 7.2%, 7.3%, 7.4%, 7.5%, 7.6%, 7.7%, 7.8%, 7.9%, 8%, 8.1%, 8.2%, 8.3%, 8.4%, 8.5%, 8.6%, 8.7%, 8.8%, 8.9%, 9%, 9.1%, 9.2%, 9.3%, 9.4%, 9.5%, 9.6%, 9.7%, 9.8%, 9.9%, 10%, 10.1%, 10.2%, 10.3%, 10.4%, 10.5%, 10.6%, 10.7%, 10.8%, 10.9%, 11%, 11.1%, 11.2%, 11.3%, 11.4%, 11.5%, 11.6%, 11.7%, 11.8%, 11.9%, 12%, 12.1%, 12.2%, 12.3%, 12.4%, 12.5%, 12.6%, 12.7%, 12.8%, 12.9%, 13%, 13.1%, 13.2%, 13.3%, 13.4%, 13.5%, 13.6%, 13.7%, 13.8%, 13.9%, 14%, 14.1%, 14.2%, 14.3%, 14.4%, 14.5%, 14.6%, 14.7%, 14.8%, 14.9%, 15%, 15.1%, 15.2%, 15.3%, 15.4%, 15.5%, 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