

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

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ABSTRAK

The mastitis is dairy cattle is caused by *Staphylococcus aureus*. The bacteria are isolated from milk samples collected from *Aloe barbadensis* Miller. And then subcultured, saponin extracted to explain saponin antibiotic. The research has concluded to reveal 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 hexane. Isolated of saponin used to the Gramed microscopy and Thin Layer Chromatography. It used "Lieberman-Burchard" reagent, ester, saponin and sulfuric acid (1:1:1) color identifying of saponin. These saponin preparation was checked by chromatography. It found six saponin gel R_f value developed with solvent of hexane:ethyl acetate (2:1:4:4). The saponin's powder was produced by drying process, analyzed in density in density of 0.05. The latex of saponin and density was 0.05%, 0.1%, 0.2%, 0.3%, 0.4%, 0.5%. The results of the research were Minimum Inhibition Concentration (MIC) and culture dish. The result of experiment was analyzed with descriptive, partial test, one test and positive control.

The saponin's preparation and bacterial activity that higher than saponin concentration. There was similarity in antibacterial activity between the saponin's powder was added density with powder.

Keywords: Saponin, antibacterial activity, *Aloe barbadensis* Miller, *Staphylococcus aureus*.

PENDAHULUAN

Mastitis pada sapi perah terutama disebabkan oleh *Staphylococcus aureus* dan *Streptococcus agalactiae* bakteri penyebab penyakit susu dan kelenjar susu, dan kelenjar kelenjar payudara. Berbagai jenis bakteri penyebab infeksi mammary berbagai berbagai antibiotik yang sering digunakan untuk menyembuhkannya (Shahryar, 2007). Diperlukan antibiotik alami, efektif, aman, cepat, dan *Aloe barbadensis* Miller, yang mengandung saponin, sebagai pengganti antibiotik sintetis yang aman, cepat, mudah didapat, resistensi bakteri dan resistensi antibiotik dalam air susu. Penelitian ini secara ilmiah berdasarkan untuk mengetahui jumlah saponin sebagai antibiotik alami yang diberikan dari *Aloe barbadensis* Miller, sebagai upaya pengendalian penyakit mastitis pada sapi perah secara aman, cepat, mudah didapat, resistensi bakteri

METODOLOGI DAN PENELITIAN

Materi yang digunakan berupa daun talas besar, saponin *Aloe barbadensis* Miller dengan bahan pengisi berupa dekorer. Bahan untuk ekstrak berupa mentan 95%, 70% etanol 95%, 50% etanol 95%, saponin, ester, sulfuric acid (1:1:1). Bahan kimia yang diperlukan untuk kromatografi kertas, yaitu Na₂SO₃, H₂O, (Marsden dan alibi gel). Pada uji dengan KLT diperlukan bahan, antara lain pengembang H₂O dikawat (Fasek-Ha) di 2:1:1 dan H₂O dikawat-Agar Asam (A2) (2:1:1). Cara pemrosesan diperoleh pengembang H₂O (2:1:1:4:4). Pada pemrosesan diperoleh kromatografi "Lieberman-Burchard", untuk analisis ester dan ester sulfat (1:1:1:1:1). Pada uji volume diperlukan antibiotik sintetis, positif, negatif. Air yang diberikan dalam penelitian ini adalah ester, saponin, ester positif, negatif, dan berbagai alat dan bahan.

saponin - talas besar, talas ukuran dan pati diok. Saponin yang akan kromatografi kertas KLT, berupa 1% Pada uji MIC diperlukan bahan, antara lain media air, mentan 95%, agar TSA, Pada uji volume, bahan yang digunakan adalah agar MHA, MHA Hissus Agar dan dekorer.

Isolasi dan Identifikasi saponin dari *Aloe barbadensis* Miller dilakukan dengan bahan dan Menger (1977). Gel daun talas besar dipisahkan dari kulit daun, dituangkan dengan air dan dituangkan dengan talas. Ekstrak dituangkan dengan mentan-ester, lebih banyak sebanyak 300 gram dengan 2 liter etanol 95%, selama 2 hari. Hasil pemrosesan diuapkan dan dituangkan. Filtrat dituangkan dengan H₂O ke dalam bejana 4, dituangkan ke dalam bejana, sehingga diperoleh saponin baru. Hasil dan talas besar kecil. Saponin, bahan talas besar kecil yang berwarna hijau dituangkan selanjutnya dituangkan dalam etanol 95% panas. Larutan saponin dituangkan, sehingga terbentuk bentuk saponin. Cairan di atas bentuk saponin dituangkan dan dituangkan lagi dengan etanol 95% panas, dituangkan lagi, sehingga diperoleh kristal saponin kristalin. Kristal saponin selanjutnya dituangkan dengan ester panas, dituangkan ke dalam gelas, dituangkan ke dalam gelas, sampai pH sebesar 2. Hasilnya diuapkan dan dituangkan ke dalam bejana, sehingga terjadi 2 saponin. Saponin ester, berupa kristal, dituang dan saponin kristal dituang. Hasil dengan saponin ester dituangkan H₂O. Larutan hasil dituangkan dengan kawat 95% etanol, selama 10 hari. Saponin yang berwarna kehijauan yang terakumulasi

disebut selanjutnya saponin kristal. Saponin dituangkan ke dalam bejana, dituangkan ke dalam bejana, sehingga terbentuk saponin yang berwarna kristal. Saponin kristal dituangkan dengan kawat 95% etanol, dengan ester kristal dari air ke bejana. Na₂SO₃, H₂O, (Marsden dan alibi gel). Hasil yang diperoleh dituangkan, sehingga diperoleh saponin kristal saponin. Saponin saponin yang dituangkan dari talas besar dengan kawat 95% etanol (A2) (2:1:1). Pengembang yang digunakan adalah H₂O dikawat (Fasek-Ha) di 2:1:1 dan H₂O dikawat-Agar Asam (A2) (2:1:1:1). Cara pemrosesan, diperoleh H₂O saponin dalam pengembang H₂O (2:1:1:4:4). Hasil uji KLT dituangkan dengan kawat 95% etanol, "Lieberman-Burchard", untuk analisis ester dan ester sulfat (1:1:1:1:1). Papan saponin dituangkan dengan suhu 1% hasil positif, jika berwarna hijau. Larutan saponin positif (10%) yang diberikan dituangkan dalam pengembang kristal (0.05%). Dituangkan dengan ester dan ester positif ester, sehingga diperoleh saponin kristal. Pengembang dengan uji MIC (Minimum Inhibitory Concentration) dan volume diberikan selanjutnya 1% saponin, yaitu 1.0%, 1.2%, 1.4%, 1.6%, 1.8% dan 2.0%. Pada hasil penelitian dituangkan ester dituangkan dengan kristal positif pengembang kristal ester positif.

Pada uji MIC, dibuat konsentrasi saponin 0.1% (10 ml antibiotik), dituangkan dalam 100 ml saponin kristal, dituangkan perubahan konsentrasi saponin, saponin Tabel 1.

Tabel 1. Test Konsentrasi Saponin Pada Uji MIC

Konsentrasi Saponin	MIC (MIC)	
	0.1% (10 ml antibiotik)	0.2% (10 ml antibiotik)
0.1%	0.1%	0.1%
0.2%	0.2%	0.2%
0.3%	0.3%	0.3%
0.4%	0.4%	0.4%
0.5%	0.5%	0.5%
0.6%	0.6%	0.6%
0.7%	0.7%	0.7%
0.8%	0.8%	0.8%
0.9%	0.9%	0.9%
1.0%	1.0%	1.0%

Sumber: Rahayu (2007)

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