

## **ABTRACT**

### **CHEMICAL QUALITY OF GOAT'S MILK ON SMALLHOLDER FARMS (CASE STUDY IN PESAWARAN AND EAST LAMPUNG DISTRICT)**

**By**

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This study aims to determine the chemical quality of goat milk based on fat, protein, lactose, and solid non fat (SNF) levels on smallholder dairy goat farms in Pesawaran and East Lampung Districts based on SNI No. 01-3141-2011 and TAS No. 6006-2008 on fresh goat milk. This research was conducted in January--April 2023 using survey method and snowball sampling. A total of 38 samples were obtained from Pesawaran District (Mulia Farm) and East Lampung District (Luru Barokah and Soccer Mania Farm). Goat milk samples were taken as much as 250 ml/head and analyzed using a Lactoscan milk analyzer. The results of research in Pesawaran District (Mulia Farm) and East Lampung District (Luru Barokah and Soccer Mania Farm) showed that the average fat content (5.509% and 5.816%), protein content (3, 998% and 3.825%), lactose levels (3.758% and 3.637%), and solid non fat (SNF) content (8.404% and 8.057%) met the fresh milk standards set out in SNI No 01-3141-2011 and TAS No 6006-2008 regarding fresh goat milk in the premium class.

**Keywords:** Chemical quality, East Lampung Regency, Goat's milk, Pesawaran Regency

## ABSTRAK

### KUALITAS KIMIA SUSU KAMBING PETERNAKAN RAKYAT (STUDI KASUS DI KABUPATEN PESAWARAN DAN LAMPUNG TIMUR)

Oleh

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Penelitian ini bertujuan untuk mengetahui kualitas kimia susu kambing berdasarkan kadar lemak, protein, laktosa, dan bahan kering tanpa lemak (BKTL) pada peternakan kambing perah rakyat di Kabupaten Pesawaran dan Lampung Timur berdasarkan SNI No. 01-3141-2011 dan TAS No. 6006-2008 tentang susu kambing segar. Penelitian ini dilaksanakan pada Januari--April 2023 menggunakan metode survei dan penentuan sampel secara *snowball*. Susu kambing yang diperoleh sebanyak 38 sampel berasal dari Kabupaten Pesawaran (peternakan rakyat Mulia Farm) dan Kabupaten Lampung Timur (peternakan rakyat Luru Barokah dan Soccer Mania Farm). Sampel susu kambing diambil sebanyak 250 ml/ekor dan dianalisis menggunakan *Lactoscanm milk analyzer*. Hasil penelitian di Kabupaten Pesawaran (peternakan rakyat Mulia Farm) dan Kabupaten Lampung Timur (peternakan rakyat Luru Barokah dan Soccer Mania Farm) menunjukkan bahwa kadar lemak (5,509% dan 5,816%), kadar protein (3,998% dan 3,825%), kadar laktosa (3,758% dan 3,637%), dan kadar bahan kering tanpa lemak (BKTL) (8,404% dan 8,057%) memenuhi standar susu segar yang ditetapkan dalam SNI No 01-3141-2011 dan TAS No 6006-2008 tentang susu kambing segar dalam kelas premium.

**Kata kunci:** Kabupaten Lampung Timur, Kabupaten Pesawaran, Kualitas kimia, Susu kambing