

**PENENTUAN KADAR PROTEIN PADA AMPAS BIR
HASIL LIMBAH INDUSTRI PABRIK BIR**

**(DETERMINATION OF PROTEIN LEVELS ON DREGS OF BEER
RESULT OF INDUSTRIAL WASTE ON BEER FACTORY)**

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ABSTRAK

Ampas bir merupakan residu dari limbah industri yang telah diambil sarinya melalui proses pengolahan dengan bahan baku malt yang berasal dari biji barley. Ampas bir oleh masyarakat dimanfaatkan sebagai substitusi pakan untuk ternak. Apabila diperhatikan ampas bir dalam ketersediaan dan kontinuitas pengadaannya sudah mencukupi, sehingga masyarakat bisa lebih mudah dalam mendapatkannya. Penelitian ini bertujuan untuk menentukan kadar protein pada ampas bir.

Sampel dalam penelitian ini berupa ampas bir yang diperoleh dari distributor ampas bir di Kota Wonogiri. Penentuan kadar protein pada ampas bir yaitu menggunakan metode Gunning. Penentuan kadar protein ini melalui tiga tahap yaitu tahap dekstruksi, tahap destilasi, dan tahap titrasi. Kadar protein pada sampel ampas bir dihitung berdasarkan jumlah Nitrogen dikalikan dengan faktor konversi dari ampas bir yaitu Malt.

Hasil penelitian menunjukkan bahwa kadar protein pada ampas bir adalah 9,45%

Kata Kunci : Ampas Bir, Protein, Metode Gunning

ABSTRACT

Dregs of beer is from the residue of industrial waste has been taken filtrat through processing with malt raw material that comes from the seeds for barley. Dregs of beer by the community used as livestock feed ingredients for replacement cattle. When the attention dregs of beer in the availability and continuity of method of procurement is sufficient so that the community can be more easily to get it. This research aims to determine the level of protein in the dregs of beer.

Samples in this research form dregs of beer obtained from the dregs of beer suppliers in city of Wonogiri. Determination of protein levels on dregs of beer using Gunning method. Determination of protein levels through three stages namely dekstruksi stage, destilasi stage, and titration stage. The level of protein on dregs of beer samples is calculated based on the amount of Nitrogen beer multiplied by the conversion factor from the dregs of beer is Malt.

The results of the study showed that the protein levels on the dregs of beer is 9,45%

Keywords: Dregs of Beer, Protein, Gunning Method