

Ach. Sukramul Majid NRP. 14.03.4.1.1.00018. Pengaruh Penambahan BaCl_2 (Barium Klorida) Terhadap Garam Krosok (Salt House UTM) Guna Mencapai SNI Garam Industri. Dibawah bimbingan **Ary Giri Dwi Kartika, S.Kel., M.Si**

ABSTRAK

Hasil produksi garam krosok di Salt House memiliki kualitas yang masih rendah, yaitu bisa dilihat dari segi fisik yang kurang bersih dan dari segi kandungan NaCl yang belum mencapai standar garam industri. Oleh karena itu perlu dilakukan purifikasi untuk mencapai SNI (standar nasional Indonesia) garam konsumsi. Penelitian ini bertujuan untuk mengetahui kadar NaCl , dan H_2O pada garam krosok dan garam hasil purifikasi. Serta mengetahui pengaruh pemberian BaCl_2 terhadap kandungan NaCl . Pengambilan sampel di Salt House UTM, kemudian dilanjutkan analisa laboratorium untuk menganalisa natrium klorida dan kadar air. Hasil dari penelitian menunjukkan kadar natrium klorida pada garam krosok sebesar 93,338%, pada purifikasi penambahan 1,25 gr BaCl_2 sebesar 93,79%, penambahan 2,5 gr BaCl_2 sebesar 96,687% dan pada penambahan 3,75 gr sebesar 97,497%. Kadar kadar air pada garam krosok sebesar 1,391%, pada purifikasi penambahan 1,25 gr sebesar 0,51%, penambahan 2,5 gr BaCl_2 sebesar 0,553% dan pada penambahan 3,75 gr sebesar 0,37%. Purifikasi dengan penambahan BaCl_2 berpengaruh terhadap peningkatan NaCl .

Kata Kunci: Garam Krosok, Salt House, Pengaruh BaCl_2 , Kandungan NaCl , H_2O

Ach. Sukramul Majid NRP. 14.03.4.1.1.00018. The Effect of the Addition of BaCl_2 (Barium Chloride) on Krosok Salt (UTM Salt House) in order to achieve SNI for Industrial Salt. Guided by **Ary Giri Dwi Kartika, S.Kel ., M.Si**

ABSTRACT

The result of producing krosok salt in Salt House still has low quality. It can be seen from the physical aspect which is not clean enough and the point of view of the NaCl ingredients which has not approved by the standard of salt industries. Therefore, purification is needed to achieve it on Indonesian national standard for consuming salt. This study aims to determine the levels of NaCl and H_2O in Krosok salt and purified salt. As well as knowing the effect of BaCl_2 on the ingredients of NaCl. By taking a sample at UTM Salt House, then continue by analyzing sodium chloride and ingredients of water in laboratory. The results shown that the sodium chloride ingredients in krosok salt was 93.338%, the addition of 1.25 gr BaCl_2 was added to 93.79%, the addition of 2.5 g BaCl_2 was 96.687% and the addition of 3.75 g was 97.497%. The water ingredients in krosok salt was 1.391%, the addition of 1.25 g was 0.51% in purification, the addition of 2.5 g of BaCl_2 was 0.553% and in the addition of 3.75 g it was 0.37%. Purification with the addition of BaCl_2 has an effect on increasing NaCl.

Keywords : Krosok salt, salt house, effect of BaCl_2 , Ingredients of Nacl, H_2O