

Study on Total Chlorine in Crude Palm Oil from Various Palm Oil Mill Operation Units

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Abstract : A palm oil mill produces crude palm oil (CPO) and has many operation units that comprises of sterilization, stripping, digestion and pressing, clarification, purification, drying and storage. This study investigated the total chlorine in palm fruit and CPO after each operating units. The total chlorine were determined by Mitsubishi NSX-2100 H, Trace Elemental Analyzer. The trace elemental analyzer is a furnace system with a micro-coulometric detector that was used for measuring and detecting total chlorine whether in organic or inorganic form. This determination is important as the chlorine is a direct precursor for 3-MCPD ester.

Keywords : chlorine, micro-coulometric, palm oil, 3-MCPD

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