**DETERMINATION OF LEVEL OF IRON AND CADMIUM**

**IN DRINKING AND FRUIT PACKAGING**

**SPECTRO PHOTOGRAPHY FRUIT**

**ATOM APPLICATIONS**

**RENTI ADELINA RITONGA**

**15211413**

**ABSTRACT**

Milk and fruit drinks packaged in cans can be contaminated with heavy metals from canned components. The heavy metal contamination will be dangerous in the health of the body if it exceeds the allowable threshold. The purpose of this study was to analyze lead and iron in milk and canned fruit drinks.

The extraction process is carried out by wet decoding, then the metal is determined by the Atomic Absorption Spectrophotometry (AAS) using acetylene air. lead is set at a wavelength of 283.3 nm, iron at a wavelength of 248.3 nm and a wavelength of cadmium 228.8 nm.

The results obtained from these two samples contained iron metal but did not contain lead metal. The levels obtained in canned milk drinks with iron content ranges of (0,18046 ± 0,01840) mg / 100g. while for canned fruit drinks with a range of iron content of (0,13789 ± 0,02366) mg / 100g and still meet the requirements of quality standards for canned bottled drinks according to RI PERMENKES No. 492 in 2010 which is <0.3 mg / L.

**Keywords:** Milk drinks, fruit, canned packaging, lead, iron, destruction, SSA.

St.Ismayana B, Syarief, R., S.Santausa . 1989. Teknologi Pengemasan Pangan.

 Laboratorium Rekayasa Proses Pangan. PAU Pangan dan Gizi. IPB.

Thomas, 1996 S. Khaiharu. Menejemen Pengemasan. Salemba Empat. Jakarata.