**PENETAPAN KADAR BESI (Fe) DAN KALSIUM (Ca) PADA**

**SUSU BALITA SECARA SPEKTOFOTOMETRI**

**SERAPAN ATOM**

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**ABSTRAK**

Susu merupakan salah satu makanan penunjang ASI untuk mendukung pertumbuhan dan perkembangan anak karena pada usia 6 bulan ke atas pada susu terdapat vitamin dan mineral yang berkhasiat untuk kesehatan seperti pencegahan dini menangkal radikal bebas dan meningkatkan imunitas tubuh. Mineral yang terkandung pada susu balita antara lain besi dan kalsium. Tujuan penelitian ini adalah untukmenetapan kadar besi (Fe) dan kalsium (Ca) pada susu balita secara spektrofotometri serapan atom.

Sampel yang digunakan yaitu 3 buah susu balita yang diperoleh dari Swalayan Kota Medan yaitu susu A, susu B dan susu C. Sebelum ditentukan kadarnya terlebih dahulu sampel didestruksi secara basah. Pengukuran dilakukan pada panjang gelombang 248,3 nm untuk besi, dan panjang gelombang 422,7 nm untuk kalsium.

Hasil penelitian diperoleh berturut-turut kadar besi (Fe), dan Kalsium (Ca) Kadar Besi yang terdapat pada susu A 8,0776 ± 0,4155 mg/100g, susu B 7,7652 ± 0,3898 mg/100g susu C 5,8072 ± 0,4245 mg/100g. kadar kalsium yang terdapat pada susu A 328,3441 ± 15,4993 mg/100g, susu B 98,7246 ± 8,6669 mg/100g. susu C 436,9387 ± 13,3316mg/100g.

*Kata Kunci: Kadar, Susu , Besi, Kalsium, Spektrofotometri Serapan Atom*

***DETERMINATION OF IRON (Fe) AND CALCIUM (Ca) LEVELS***

***IN TODDLER MILK BY SPECTROPHOTOMETRY***

***ATOMIC ABSORPTION***

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***ABSTRACT***

*Milk is one of the supporting foods for breastfeeding to support the growth and development of children because at the age of 6 months and over, milk contains vitamins and minerals that are efficacious for health such as early prevention of free radicals and increasing body immunity. Minerals contained in toddler milk include iron and calcium. The purpose of this study was to determine the levels of iron (Fe) and calcium (Ca) in infant milk by atomic absorption spectrophotometry.*

*The samples used were 3 pieces of toddler milk obtained from the Medan City supermarket, namely milk A, milk B and milk C. Before determining the levels, the samples were destroyed by wet. Measurements were made at a wavelength of 248.3 nm for iron, and a wavelength of 422.7 nm for calcium.*

*The results obtained successively the levels of iron (Fe), and calcium (Ca). Iron content contained in milk A 8.0776 ± 0.4155 mg/100g, milk B 7.7652 ± 0.3898 mg/100g milk C .8072 ± 0.4245 mg/100g. The calcium content in milk A is 328.3441 ± 15.4993 mg/100g, milk B is 98.7246 ± 8.6669 mg/100g. milk C 436.9387 ± 13.3316mg/100g.*

*Keywords: Content, Milk, Iron, Calcium, Atomic Absorption Spectrophotometry*