



Analisis Total Minuman isotonik Merek “X”

PKT – 19
T.A 2018/2019

Anggota



Annisah
Nur Affifah



Muhammad
Rizky
Ramadhan



SMK - SMAK BOGOR

Ristyan
Krishna
Wibowo



Salsabila
Rizqi
Ummami

PKT 19

Peta Konsep

Pendahuluan
Metode Analisis
Hasil Analisis
Kesimpulan

Pendahuluan

Latar Belakang

Tinjauan Pustaka

A woman with long dark hair tied in a ponytail, wearing a red hoodie and white earbuds, is shown in profile drinking from a pink water bottle. She is standing outdoors with a blurred background of trees and a path. A semi-transparent brown rectangular box with a white border is overlaid on the image, containing the text "Latar Belakang" in white.

Latar Belakang

Latar Belakang



Latar Belakang



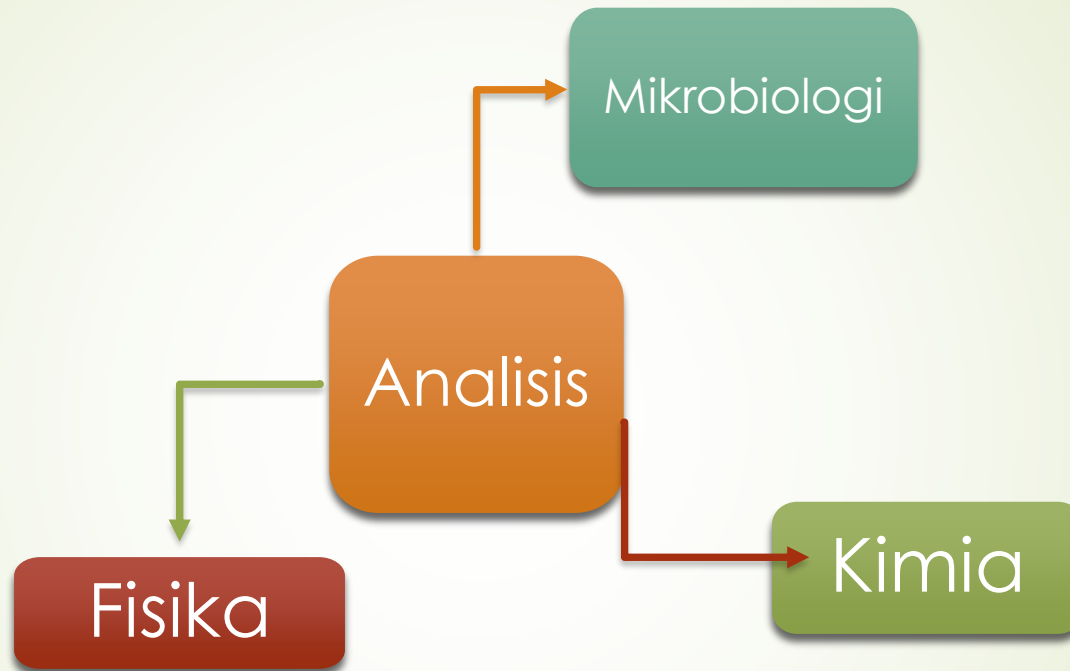
The image features two plastic bottles of ISO2051 Energy Drink against a light gray background. The bottle on the left is green with a black cap, and the bottle on the right is orange with an orange cap. Both bottles have the brand name 'ISO2051' printed vertically in large, white, outlined letters. Below the brand name, the words 'ENERGY DRINK' and the volume '0,5L' are printed in smaller black text. A central red rectangular box with a thin white border contains the white text 'Tinjauan Pustaka'.

Tinjauan Pustaka

Tinjauan Pustaka



Metode Analisis



Standar yang digunakan :

1. SNI 01-4452-1998
2. SNI 01-0222-1995
3. BPOM No 13 Tahun 2016

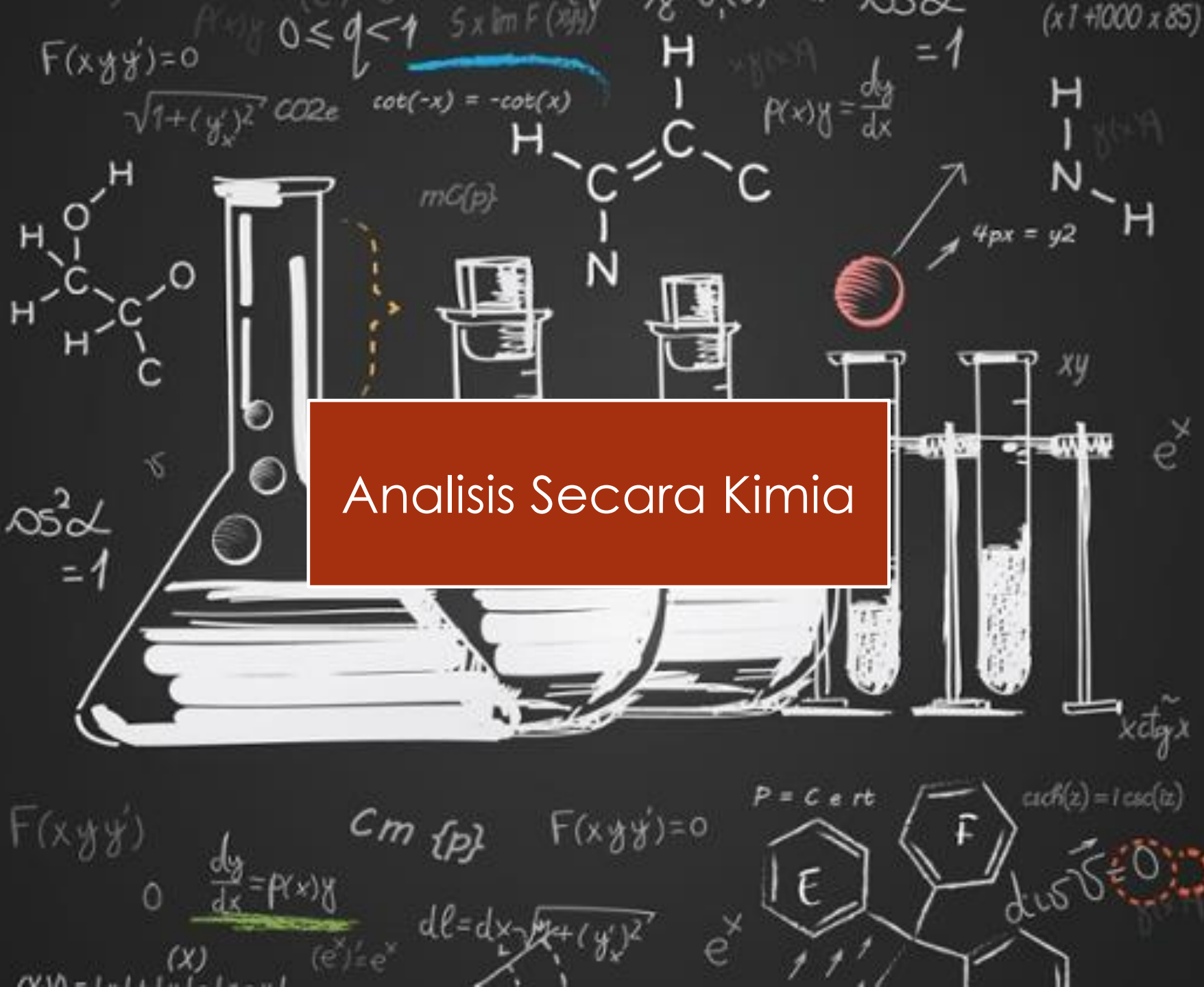


Analisis Secara Fisika

Fisika

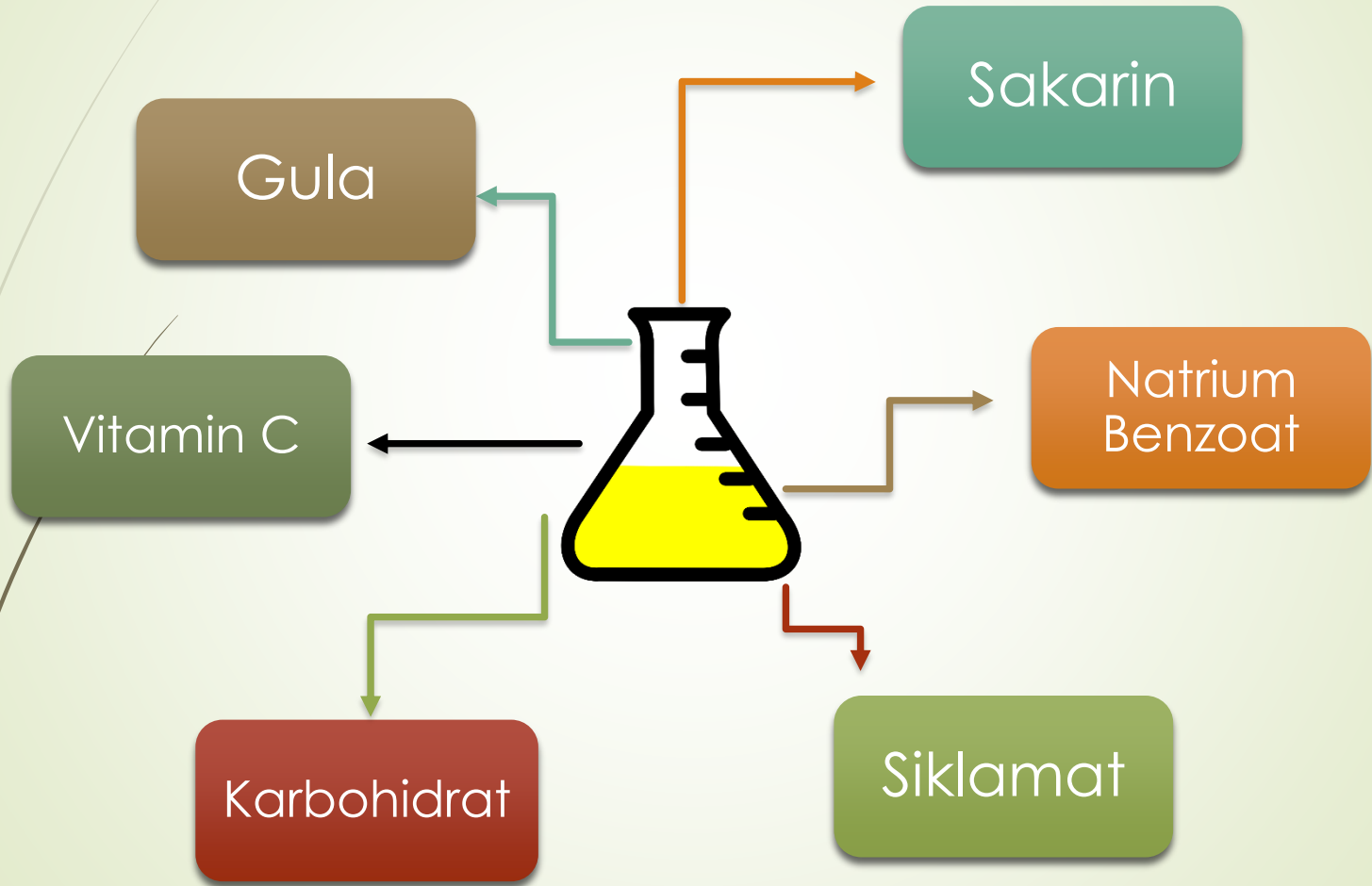


Analisis Secara Kimia



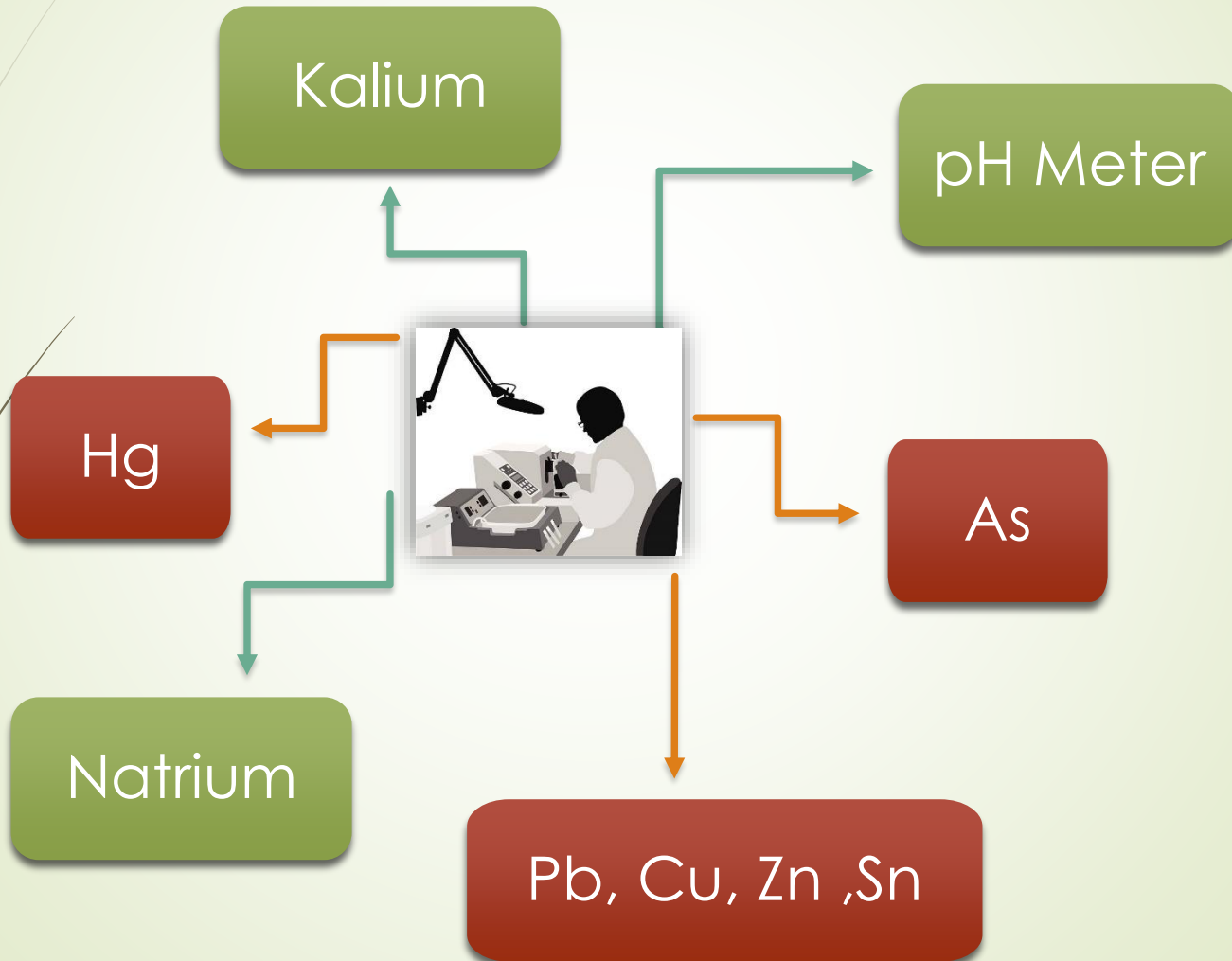


Kimia





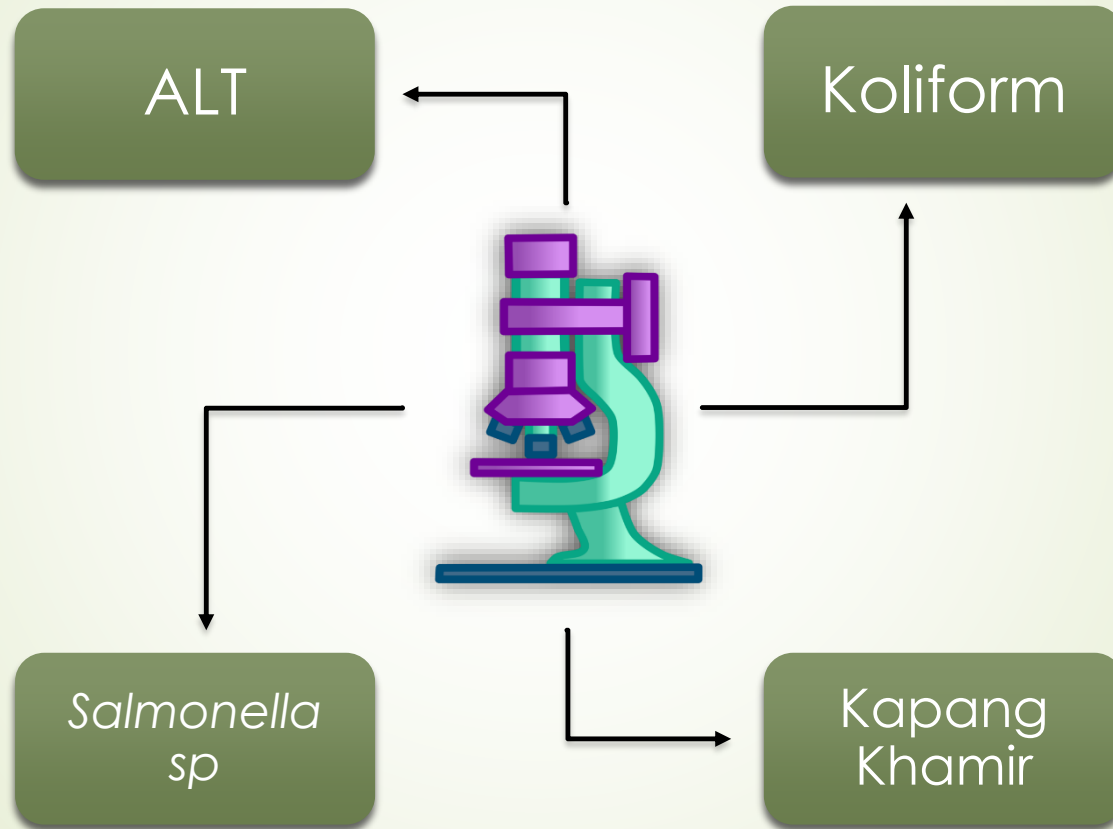
Kimia



A photograph of a laboratory. In the foreground, a light blue microscope is positioned on a lab bench. To its left, there are several glass flasks containing liquids of different colors (yellow, orange, blue). In the background, a person wearing a white lab coat is working at a bench, slightly out of focus. The overall scene is brightly lit, typical of a laboratory environment.

Analisis Mikrobiologi

Mikrobiologi



Hasil Analisis



Perbandingan Hasil Sampel X dengan Standar

Parameter Tambahan

Perbandingan Sampel X dengan Sampel Y

Perbandingan Hasil Sampel X dengan Standar

No	Jenis Parameter	Satuan	Standar	Hasil
1	Fisika			
1.2	Bau	-	Normal	Normal
1.3	Rasa	-	Normal	Normal
2	Kimia			
2.1	Gula	%	Min. 5	6.27
2.2	Sakarin	-	Negatif	Negatif
2.3	Siklamat	-	Negatif	Negatif
2.4	Natrium Benzoat	mg/kg	Maks. 600	379.03

Perbandingan Hasil Sampel X dengan Standar

No	Jenis Parameter	Satuan	Standar	Hasil
2.5	pH	-	Maks. 4	3.64
2.6	Natrium	mg/kg	800-1000	509.42
2.7	Kalium	mg/kg	125-175	298.36
2.8	Cemaran Logam	-	-	-
a	Pb	mg/kg	Maks. 0.3	< 0.1078
b	Cu	mg/kg	Maks. 2.0	< 0.0181
c	Zn	mg/kg	Maks. 5.0	1.5468
d	Sn	mg/kg	Maks. 40	< 2.9074
2.9	Hg	mg/kg	Maks. 0.03	< 2.2594
2.10	As	mg/kg	Maks. 0.1	< 2.7259

Perbandingan Hasil Sampel X dengan Standar

No	Jenis Parameter	Satuan	Standar	Hasil
3	Mikrobiologi			
3.1	Angka Lempeng Total	Koloni/ml	Maks. 2×10^2	15
3.2	Koliform	APM/ml	< 3	< 3
3.3	Salmonella sp	-	Negatif	Negatif
3.4	Kapang	Koloni/ml	Maks. 50	< 50
3.5	Khamir	Koloni/ml	Maks. 50	25

Parameter Tambahan

No	Jenis Parameter	Satuan	Hasil
1	Karbohidrat	%	5.42
2	Vitamin C	%	0.57

Perbandingan Sampel X dengan Sampel Y

No	Jenis Parameter	Satuan	Sampel X	Sampel Y
1	Karbohidrat	%	5.42	3.95
2	Natrium	mg/kg	509.42	517.5
3	Kalium	mg/kg	298.36	595.32

Kewirausahaan

Fisika

Parameter	Harga Bahan	Jasa Analisis	Keuntungan
Uji Hedonik	-	Rp 15000	Rp 15000

Kimia

Gula	Rp 198000	Rp 220000	Rp 22000
Sakarin	Rp 98600	Rp 120000	Rp 21400
Siklamat	Rp 100200	Rp 120000	Rp 19800
Na. Benzoat	Rp 288000	Rp 300000	Rp 12000
Karbohidrat	Rp 535000	Rp 600000	Rp 65000
Vitamin C	Rp 280000	Rp 300000	Rp 20000
Total	Rp 1321600	Rp 1660000	Rp 160200

Kewirausahaan

Kimia

Parameter	Harga Bahan	Jasa Analisis	Keuntungan
pH	Rp 34650	Rp 40000	Rp 5350
Natrium	Rp 108000	Rp 120000	Rp 12000
Kalium	Rp 108000	Rp 120000	Rp 12000
Pb	Rp 98600	Rp 120000	Rp 21400
Cu	Rp 96800	Rp 120000	Rp 23200
Zn	Rp 102000	Rp 120000	Rp 18000
Sn	Rp 116000	Rp 120000	Rp 4000
Hg	Rp 189000	Rp 200000	Rp 11000
As	Rp 182000	Rp 200000	Rp 18000
Total	Rp 1035050	Rp 1160000	Rp 124950

Kewirausahaan

Mikrobiologi

Parameter	Harga Bahan	Jasa Analisis	Keuntungan
ALT	Rp 226000	Rp 250000	Rp 24000
Koliform	Rp 214000	Rp 250000	Rp 36000
<i>Salmonella</i>	Rp 232000	Rp 250000	Rp 18000
Kapang	Rp 224000	Rp 250000	Rp 26000
Khamir	Rp 224000	Rp 250000	Rp 26000
Total	Rp 1120000	Rp 1250000	Rp 130000



Pembahasan

Natrium

Kalium

Kesimpulan



Question and answer

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“Terima kasih”