

TABLE 1. Moisture content in different parts of oil palm trunk.

Moisture % (w/w)	Part ¹⁾		
	Inner (a)	Middle (b)	Outer (c)
	82.4 ± 1.2	75.9 ± 4.7	67.7 ± 6.9

¹⁾ Samples from different parts of disks were prepared according to the method described in Materials and Methods. Results are means ± SD of three determinations.

TABLE 2. Free sugars contained in sap from felled oil palm trunk.

Free sugars	Part		
	Inner (a)	Middle (b)	Outer (c)
	g/L	g/L	g/L
Sucrose	6.5 ± 1.1	3.0 ± 0.4	1.9 ± 0.1
Glucose	85.2 ± 2.5	52.2 ± 3.4	13.1 ± 2.6
Fructose	4.1 ± 1.2	3.1 ± 1.0	2.1 ± 1.7
Xylose	0.7 ± 0.1	0.8 ± 0.1	1.4 ± 1.1
Galactose	0.9 ± 0.1	0.8 ± 0.3	1.0 ± 0.8
Rhamnose	0.4 ± 0.2	0.5 ± 0.2	0.5 ± 0.2
Others	0.3 ± 0.3	0.1 ± 0.1	0.1 ± 0.2
Total	98.1 ± 5.5	60.5 ± 3.3	20.1 ± 1.1

Results are means ± SD of three determinations.

TABLE 3. Amino acids contained in sap from the inner part of felled oil palm trunk.

Amino acids	Concentration ($\mu\text{g/g}$ of sap)
Aspartic acid	17.3
Threonine	7.4
Serine	45.3
Glutamic acid	33.9
Glycine	3.1
Alanine	38.8
Valine	7.6
Methionine	1.7
Isoleucine	5.1
Leucine	1.9
Tyrosine	1.8
Phenylalanine	6.9
Tryptophan	12.1
Lysine	2.3
Histidine	1.6
Arginine	5.8
Proline	5.7
Total	198.3

TABLE 4. Organic acids contained in sap from the inner part of felled oil palm trunk.

Organic acids	Concentration ($\mu\text{g/g}$ of sap)
Succinic acid	30.9
Pyruvic acid	19.0
Malic acid	371.8
Maleic acid	119.1
Lactic acid	1.3
Fumaric acid	8.1
Citric acid	380.6
Acetic acid	39.8
Total	970.6

TABLE 5. Minerals contained in sap from the inner part of felled oil palm trunk.¹⁾

Mineral	Concentration ($\mu\text{g/g}$ of sap)
Ca	210
Fe	3.0
Mg	145
Mn	12
Mo	1.5
Na	22
P	12
Si	4.0
Zn	2.5
Cl	535
Total	947

¹⁾ Al, As, Ba, Cd, Ce, Co, Cr, Cu, Ga, Ge, Hf, La, Li, Pb, Pd, Sb, Se, Sn, Sr, Ti, V, and Zr were below the level of detection ($1 \mu\text{g/g}$ sap).

TABLE 6. Vitamins contained in sap from the inner part of felled oil palm trunk.

Vitamin	Concentration ($\mu\text{g/g}$ of sap)
Pyridoxine, pyridoxal, pyridoxiamine	1.1
Pantothenic acid	1.5
Niacin	2.6
Inositol	640
Biotin	0.024
Ascorbic acid	20

Thiamine, riboflavin, folic acid, and cyanocobalamin were not detectable.