

2.1.4 Moisture Contents

Moisture generally refers to the presence of water however, the moisture content in vegetables is indicative of its freshness as well as easy perishability (Adepoju and Oyehran, 2008).

Table 3. Proximate Nutrients Composition (Mg/100g) and (%) of Bitter Leaf

Proximate Composition	Values	Author (s)
Moisture	66.45 ^a , 82.0 ^b , 79.9% ^c , 76.67% ^d	Sodamade A(2013) ^a , Fred <i>et al.</i> , (2009), Ejoh <i>et al.</i> , (2007) and Okaffor, (1995)
Protein	29.09 ^a , 9.7% ^b , 19.2% ^c , 1.3 ^d , 44.28 ^e	Agunbiade <i>et al.</i> , (2015) ^a Udensi <i>et al.</i> , (2002) ^b Ejoh <i>et al.</i> , (2007) ^c , Fred <i>et al.</i> , (2009) ^d and Sodamade A (2013) ^e
Carbohydrate	23.58 ^a , 52.53 ^b , 68.4 ^c	Sodamade (2013) ^a , Agunbiade <i>et al.</i> , (2015) Ejoh <i>et al.</i> , (2007) ^c
Crude Fibre	12.84 ^a , 10.46 ^b , 19.2% ^c	Agunbiade <i>et al.</i> , (2015) ^a , Sodamade (2013) ^b Eleyinmi <i>et al.</i> , (2008) ^c
Ash	0.5 ^a , 2.30 ^b , 12.48 ^c	Fred <i>et al.</i> , (2009) ^a , Agunbiade <i>et al.</i> , (2015) ^b , Sodamade, (2013) ^c
Fat/Lipids	9.20 ^a , 4.7 ^b	Sodamade (2013), Eleyinmi <i>et al.</i> , (2008) ^b
Vitamin C	345.0	Agunbiade <i>et al.</i> , (2015)
Dry matter	15.10	Agunbiade <i>et al.</i> , (2015)
Ascorbic Acid	80-104 ^a , 166.5 ^b	Udensi <i>et al.</i> , (2002) ^a , Ejoh <i>et al.</i> , (2007) ^b

Source: 1. Agunbiade *et al.*, 2015 (2) Ejoh *et al.*, 2007 (3) Eleyinmi *et al.*, 2008

(4) Fred *et al.*, 2009 (5) Okaffor, 1995 (6) Sodamade, 2013 (7) Udensi *et al.*, 2002

9. Erasto, P; Grierson, D.S; and Afolayan, A.J (2006). Bioactive susquiterpene lactones from the leaves of vernonia amygdalina. *Journal of Ethropharmacol.* 106:117 – 120.
10. Food and Agricultural Organization (FAO), (2004). The state of food insecurity in the world: monitoring progress towards the world food summit and millennium development goals. FAO, Rome, PP.6 – 10.
11. Fred, O.J.O, and Honeybell, I.M. (2009). Nutritional and antimicrobial properties of vernonia amygdalina leaves. *International journal of biomedical and health sciences*, Vol.2:53 – 54.
12. Huffman, M.A, and Seifu, M. (1989). Observations on the Illness and Composition of a Possibly Medicinal Plant Vernonia amygdalina. *Dal.*
13. Ifeoma I.I and Chukwunonso E.C.C (2011). Current perpectives on the medicinal potential of vernonia amygdalina Del. *journal of medicinal plants Research* Vol. 5(7):1051 – 1061.
14. Igile, G.O; Oleszek, W; Jurzysta, M; Burda, S; Fanfunso, M; and Fasanmade, A.A (1994). Flavonoids from Vernonia amygdalina and their Antioxidant Activities. *Journal of Agricultural Food Chemistry*, 42:2445 – 2448.
15. Ikeh, C.K; Ikeh, P.E and Ezike, C.A. (2014). Protective potential of aqueous leafy extract of vernonia amygdalina in cyclophosphamide. induced myelotoxicity, *IOSR Journal of Pharmacy* 4,3, 06 – 14.
16. Iwu, M.M (1986). Emperical Investigation of Dietary Plants used in Igbo – Ethnomedicine. In: Iwu, M.M Plants in indigenes Medicine and Diet. Nina Etkined Redgrove Publishers Co, New York: 131 – 150.

composition and functional properties of vernonia amygdalina vegetable leaf protein concentrations. *Greener journal of agricultural sciences*. 205 – 208.

24. Song, Y.J; Lee D.Y, Kim, S.N, Lee, H.W, Kang, D.W Lee, H.Y, Kim, Y.K (2005). Apoptotic potential of sesquiterpene lactones ergolide through the inhibition of $\text{NF-}\kappa\text{B}$ signaling pathway. *Journal pharmacol.* 57(12): 1591-1597
25. Udensi, E.A; Ijeh, I.I; and Ogbonna, U (2002). Effect of traditional processing on the phytochemical and nutrient composition of some local Nigerian leafy vegetables. *Journal of science and technology*, 8:37 – 40.

Preview from Notesale.co.uk
Page 19 of 19