

REFERENCES

- Abugoch, L., Castro, E., Tapia, C., Añón, M. C., Gajardo, P., & Villarroel, A. (2009). Stability of quinoa flour proteins (*Chenopodium quinoa* Willd.) during storage. *International Journal of Food Science & Technology*, 44(10), 2013–2020.
- Allowances, R. D. (1989). Recommended dietary allowances. *National Research Council-National Academy Press: Washington, DC, USA*.
- Aluko, R. E., & Monu, E. (2003). Functional and bioactive properties of quinoa seed protein hydrolysates. *Journal of Food Science*, 68(4), 1254-1258.
- Ansharullah, Hourigan, J. A., & Chesterman, C. F. (1997). Application of Carbohydrases in Extracting Protein from Rice Bran. *Journal of the Science of Food and Agriculture*, 74(2), 141–146.
- Ayaşan, T. (2020). Determination of nutritional value of some quinoa varieties. *Turkish Journal of Veterinary and Animal Sciences*, 44(4), 950-954.
- Burrieza, H. P., López-Fernández, M. P., & Maldonado, S. (2014). Analogous reserve distribution and tissue characteristics in quinoa and grass seeds suggest convergent evolution. *Frontiers in plant science*, 5, 546.
- Burton, R. A., & Fincher, G. B. (2014). Evolution and development of cell walls in cereal grains. *Frontiers in plant science*, 5, 456.
- Collar, C. (2016). Quinoa. *Encyclopedia of Food and Health*, 573-579.
- Dwivedi, A. K., Mallawaarachchi, I., & Alvarado, L. A. (2017). Analysis of small sample size studies using nonparametric bootstrap test with pooled resampling method. *Statistics in medicine*, 36(14), 2187-2205.
- Elsohaimy, S. A., Refaay, T. M., & Zaytoun, M. A. M. (2015). Physicochemical and functional properties of quinoa protein isolate. *Annals of Agricultural Sciences*, 60(2), 297–305.
- Filho, A. M. M., Pirozi, M. R., Borges, J. T. D. S., Pinheiro Sant'Ana, H. M., Chaves, J. B. P., & Coimbra, J. S. D. R. (2015). Quinoa: Nutritional, functional, and antinutritional aspects. *Critical Reviews in Food Science and Nutrition*, 57(8), 1618–1630.

- Gerstein, A. S. (2004). Molecular biology problem solver: a laboratory guide. *John Wiley & Sons*.
- Ghumman, A., Mudgal, S., Singh, N., Ranjan, B., Kaur, A., Chand Rana, J., Physicochemical, functional and structural characteristics of grains, flour and protein isolates of Indian quinoa lines, *Food Research International* (2020)
- Gorissen, S. H., Crombag, J. J., Senden, J. M., Waterval, W. A., Bierau, J., Verdijk, L. B., & Loon, L. J. (2018). Protein content and amino acid composition of commercially available plant-based protein isolates. *Amino Acids*, 50(12), 1685-1695.
- Harmon, L. J., & Losos, J. B. (2005). *THE EFFECT OF INTRASPECIFIC SAMPLE SIZE ON TYPE I AND TYPE II ERROR RATES IN COMPARATIVE STUDIES*. *Evolution*, 59(12), 2705–2710.
- Hoffman, J. R., & Falvo, M. J. (2004). Protein—which is best?. *Journal of sports science & medicine*, 3(3), 118.
- Hourigan, J. A., & Chesterman, C. F. (1997). Application of carbohydrases in extracting protein from rice bran. *Journal of the Science of Food and Agriculture*, 74(2), 141-146.
- Ismail, B. P. (2017). *Ash Content Determination*. *Food Science Text Series*, 117–119.
- ITW Reagents. *Nitrogen Determination by Kjeldahl Method* [Ebook]. Spain. Retrieved from https://www.itwreagents.com/uploads/20180114/A173_EN.pdf
- Jodayree, S., Smith, J. C., & Tsopmo, A. (2012). Use of carbohydrase to enhance protein extraction efficiency and antioxidative properties of oat bran protein hydrolysates. *Food Research International*, 46(1), 69–75.
- Khem, S., Small, D. M., & May, B. K. (2016). *The behaviour of whey protein isolate in protecting Lactobacillus plantarum*. *Food Chemistry*, 190, 717–723.
- Kruskal, W. H., & Wallis, W. A. (1952). Use of Ranks in One-Criterion Variance Analysis. *Journal of the American Statistical Association*, 47(260), 583–621.
- Lung'aho, M., Fenta, A. B., Wanderi, S., Otim, A., Mwaba, C., Nyakundi, F., & Abang, M. M. (2020). Protein and amino acid composition of different quinoa (*Chenopodium Quinoa Willd.*) cultivars

grown under field conditions in Ethiopia, Kenya, Uganda, and Zambia. *African Journal of Food Agriculture Nutrition and Development*.

Mæhre, H. K., Dalheim, L., Edvinsen, G. K., Elvevoll, E. O., & Jensen, I. J. (2018). Protein determination—method matters. *Foods*, 7(1), 5.

Marshall, M. R. (2010). Ash analysis. In *Food analysis* (pp. 105-115). Springer, Boston, MA.

Mitchell, H. L. (2019). Alternative ingredients to sodium chloride. In C. Beeren, K. Groves, & P. M. Titoria (Eds.). *Reducing salt in foods* (pp. 113–128). Oxford: Elsevier.

Nielsen, S. S. (2017). Food Analysis Laboratory Manual. *Food Science Text Series*.

Novozymes. (2002). Product Sheet: Viscozyme® L. *Special Food*.

Ogungbenle, H. N. (2003). Nutritional evaluation and functional properties of quinoa (*Chenopodium quinoa*) flour. *International Journal of Food Sciences and Nutrition*, 54(2), 153–158.

Robinson, P. K. (2015). Enzymes: principles and biotechnological applications. *Essays in biochemistry*, 59, 1.

Pavuluri, S. (2014). Kinetic approach for modeling salt precipitation in porous-media. *GRIN Verlag*.

Prego, I., Maldonado, S., & Otegui, M. (1998). Seed structure and localization of reserves in *Chenopodium quinoa*. *Annals of Botany*, 82(4), 481-488.

Rosset, M., Acquaro, V. R., & Beléia, A. D. P. (2012). Protein Extraction from Defatted Soybean Flour with Viscozyme L Pretreatment. *Journal of Food Processing and Preservation*, 38(3), 784–790.

Ruiz, G. A. (2016). Exploring novel food proteins and processing technologies. Wageningen University.

Scanlin, L., & Stone, M. (2009). U.S. Patent No. 7,563,473. Washington, DC: U.S. Patent and Trademark Office.

Shen, Y., Tang, X., & Li, Y. (2020). Drying methods affect physicochemical and functional properties of quinoa protein isolate. *Food Chemistry*, 127823

Singh, A., Sharma, V., Banerjee, R., Sharma, S., & Kuila, A. (2016). *Perspectives of cell-wall degrading enzymes in cereal polishing*. *Food Bioscience*, 15, 81–86.

- Stokes, D. (2008). Principles and practice of variable pressure/environmental scanning electron microscopy (VP-ESEM). *John Wiley & Sons.*
- Struthers, B. J. (1981). Lysinoalanine: Production, significance and control in preparation and use of soya and other food proteins. *Journal of the American Oil Chemists' Society*, 58(3), 501-503.
- Sujitha, J., Muneer, M. R., Mahendran, T., & Kiruthiga, B. (2018). Influence of storage temperature on the quality parameters of wheat flour during short term storage.
- Tang, Y., & Tsao, R. (2017). Phytochemicals in quinoa and amaranth grains and their antioxidant, anti-inflammatory, and potential health beneficial effects: a review. *Molecular Nutrition & Food Research*, 61(7), 1600767.
- Toapanta, A., Carpio, C., Vilcacundo, R., & Carrillo, W. (2016). Analysis of protein isolate from quinoa (Chenopodium quinoa Willd). *Asian J. Pharm. Clin. Res*, 9, 332-334.
- United States Department of Agriculture. (2008). Quinoa, Uncooked (SR Legacy, 168874). FoodData Central.
- Wang, M., Hettiarachchy, N. S., Qi, M., Burks, W., & Siebenmorgen, T. (1999). Preparation and Functional Properties of Rice Bran Protein Isolate. *Journal of Agricultural and Food Chemistry*, 47(2), 411–416.
- Williams, A. P. (2003). AMINO ACIDS / Determination. *Encyclopedia of Food Sciences and Nutrition*, 192–197.