

REFERENCES

- Arnold, A. (1984). Determination of mineral salts from monuments. *Studies in Conservation*, 29(3), 129. <https://doi.org/10.2307/1506015>
- Baldelli, A., Wells, S., & Pratap-Singh, A. (2021). Impact of product formulation on spray-dried microencapsulated zinc for food fortification. *Food and Bioprocess Technology*, 14(12), 2286–2301.
- Bampidis, V., Azimonti, G., Bastos, M. de, Christensen, H., Dusemund, B., Fašmon Durjava, M., Kouba, M., López-Alonso, M., López Puente, S., Marcon, F., Mayo, B., Pechová, A., Petkova, M., Ramos, F., Sanz, Y., Villa, R. E., Woutersen, R., Anguita, M., Galobart, J., Manini, P. (2020). Assessment of the application for renewal of authorisation of pyridoxine hydrochloride (vitamin B6) as a feed additive for all animal species. *EFSA Journal*, 18(11). <https://doi.org/10.2903/j.efsa.2020.6289>
- Bařiš, S. A., Evren, E. Ü., Evren, H., Şahinoğlu, E., Selvi, G., Boyacı, H., Başıyığit, İ., & Yıldız, F. (2022). Awareness and knowledge of COVID-19 among health care workers in early phase of COVID-19 pandemic. *Turkish Thoracic Journal*, 23(1), 38–44. <https://doi.org/10.5152/turkthoracj.2022.21170>
- Blekas, G. A. (2016). Food additives: Classification, uses and regulation. *Encyclopedia of Food and Health*, 731–736. doi:10.1016/b978-0-12-384947-2.00304-4
- Blumer S. S. E., & Kelly, R. M. (2023). Thermophiles, Origin of. In *Elsevier eBooks* (pp. 839–851). <https://doi.org/10.1016/b978-0-12-822562-2.00096-7>
- BPOM. (2011). Peraturan Kepala Badan Pengawas Obat dan Makanan Republik Indonesia Nomor HK.03.1.23.11.11.09657 Tahun 2011 tentang Persyaratan Penambahan Zat Gizi dan Zat Non Gizi dalam Pangan Olahan
- Burck, K. (2019). The role of Quality Assurance in good laboratory practices. *Clinical Toxicology*, 15(5), 627–640.
- Catauro, P. M., & Perchonok, M. H. (2011). Assessment of the long-term stability of retort pouch foods to support extended duration spaceflight. *Journal of Food Science*, 77(1). doi:10.1111/j.1750-3841.2011.02445.x
- Chanfrau, R., Hernandez, O. D. L., & Mendoza, A. N. (2009). Calcium Magnesium Citrate Drying at Bench Scale - researchgate. https://www.researchgate.net/publication/298117320_Calcium_magnesium_citrate_drying_at_bench_scale

- Dawson, K. W., Petters, M. D., Meskhidze, N., Petters, S. S., & Kreidenweis, S. M. (2016). Hygroscopic growth and cloud droplet activation of xanthan gum as a proxy for marine hydrogels. *Journal of Geophysical Research: Atmospheres*, 121(19). <https://doi.org/10.1002/2016jd025143>
- De Blok, T. (1994). Spray drying of calcium lactate. TU Delft Repositories. <https://repository.tudelft.nl/islandora/object/uuid:98dc0b82-bcf0-4ac5-9e8f-3df1de05cf48?collection=education>
- EFSA. (2011). Scientific opinion on the safety and efficacy of vitamin B1 (thiamine mononitrate and thiamine hydrochloride) as a feed additive for all animal species based on a dossier submitted by Lohmann Animal Health. *EFSA Journal*, 9(11). <https://doi.org/10.2903/j.efsa.2011.2411>
- Feldman, E. C. (2015). Hypocalcemia and primary hypoparathyroidism. *Canine and Feline Endocrinology*, 625–648. <https://doi.org/10.1016/b978-1-4557-4456-5.00016-x>
- Feliciotti, E., & Esselen, W. (1957). Thermal destruction rates of thiamine in pureed meats and 577 vegetables. *Food Technology*, 11(2), 77-84.
- Fenta, D. A., & Ali, M. M. (2020). Factors Affecting Quality of Laboratory Result During Ordering, Handling, and Testing of the Patient's Specimen at Hawassa University College of Medicine and Health Science Comprehensive Specialized Hospital. *Journal of multidisciplinary healthcare*, 13, 809–821. <https://doi.org/10.2147/JMDH.S264671>
- Food and Drug Administration (FDA). (2016). *Contract in -House Counsel & Consultants, LLC - Food and drug*. Proteins. Retrieved from <https://www.fda.gov/media/97036/download>
- Food and Drug Administration (FDA). (2020). *GRAS NOTICE FOR BETA-GLUCAN FROM AGROBACTERIUM SP. ZX09 FOR USE IN SELECT FOOD CATEGORIES*. Retrieved from <https://www.fda.gov/media/150548/download>
- Food Safety Authority of Ireland. (2017). [Www.fsai.ie](http://www.fsai.ie). <https://www.fsai.ie/getattachment/ec1ca864-81a0-48ed-929e-bdb8d601699a/2017-Safety-Assessment-Isomaltulose.pdf?lang=en-IE>
- Gangurde, A. B., Sav, A. K., Javeer, S. D., Moravkar, K. K., Pawar, J. N., & Amin, P. D. (2015). Modified extrusion-spheronization as a technique of microencapsulation for stabilization of choline bitartrate using hydrogenated soya bean oil. *International journal of pharmaceutical investigation*, 5(4), 275–283. <https://doi.org/10.4103/2230-973X.167696>
- Grand View Research. (2022). Global Vitamins & Minerals Market Size Report, 2028. <https://www.grandviewresearch.com/industry-analysis/vitamins-minerals-market-report>

- Handayani, P. A., Dewi, I. K., & Prasetyo, A. (2022). Optimization of drying process for production red ginger granulated palm sugar using response surface methodology. *Jurnal Bahan Alam Terbarukan*, 11(1), 08–16. <https://doi.org/10.15294/jbat.v11i1.36124>
- Haouet, M. N., Tommasino, M., Mercuri, M. L., Benedetti, F., Di Bella, S., Framboas, M., ... Altissimi, M. S. (2019). Experimental accelerated shelf life determination of a ready-to-eat processed food. *Italian Journal of Food Safety*, 7(4). doi:10.4081/ijfs.2018.6919
- Hersh, E. (2020). Five Ways Effective Laboratory design impacts health, safety, and Productivity. Executive and Continuing Professional Education.
- Ismail, B.P. (2017). Ash Content Determination. In: Food Analysis Laboratory Manual. Food Science Text Series. Springer, Cham. https://doi.org/10.1007/978-3-319-44127-6_11
- Judi, H. M., Cheng, Y. Z., Seong, T. B., Yuan, L. Z., Yen, H. H., & Voon, L. W. (2021). A case of computer laboratory layout modelling and analysis. *Proceedings of the 2011 International Conference on Electrical Engineering and Informatics*. doi:10.1109/iceei.2011.6021573
- Jutkus, R. A., Li, N., Taylor, L. S., & Mauer, L. J. (2015). Effect of temperature and initial moisture content on the chemical stability and color change of various forms of Vitamin C. *International Journal of Food Properties*, 18(4), 862–879. doi:10.1080/10942912.2013.805770
- Kareem, S. H. (2007). Electrolytic Preparation of Iron Powder with Particle Size Less. *Iraqi Journal of Chemical and Petroleum Engineering*, 8, 51–57.
- Lanigan, R. S. (2011). Final report on the safety assessment of sodium metaphosphate, sodium trimetaphosphate, and sodium hexametaphosphate. *International Journal of Toxicology*, 20(3_suppl), 75–89. <https://doi.org/10.1080/10915810152630756>
- Larson, C. E. (2014). Use of sodium hexametaphosphate as an anticoagulant. *Experimental Biology and Medicine*, 44(2), 554–555. <https://doi.org/10.3181/00379727-44-11524p>
- Lheanachor, Nkemdilim, et al. "The role of Product Development Practices on new product performance: Evidence from Nigeria's financial services providers." *Technological Forecasting and Social Change*, vol. 164, 2021, p. 120470, <https://doi.org/10.1016/j.techfore.2020.120470>.
- Lly, M. (2006). Added β -glucan as a source of fibre for consumer
- Macek, T. J., Feller, B. A., & Hanus, E. J. (1950). Pharmaceutical Studies with Thiamine Mononitrate. *Journal of the American Pharmaceutical Association*, 39(7), 365–369. <https://doi.org/10.1002/jps.3030390702>

- Magari, R. T. (2002). Estimating degradation in real time and accelerated stability tests with random lot-to-lot variation: A simulation study. *Journal of Pharmaceutical Sciences*, 91(3), 893–899. doi:10.1002/jps.10092
- Marianni, B., Polonini, H., & Oliveira, M. A. L. (2021). Ensuring homogeneity in powder mixtures for pharmaceuticals and dietary supplements: Evaluation of a 3-axis mixing equipment. *Pharmaceutics*, 13(4), 563. doi:10.3390/pharmaceutics13040563
- Mercer, D. G., & Rodriguez-Amaya, D. B. (2021). Reactions and interactions of some food additives. *Chemical Changes During Processing and Storage of Foods*, 579–635. doi:10.1016/b978-0-12-817380-0.00012-9
- Metzger, M. (2005). The relationship between iron and Ph - ResearchGate. <https://www.researchgate.net/file.PostFileLoader.html?id=56764ae164e9b241778b4585&assetKey=AS%3A308623538884608%401450592993861>
- Monajjemzadeh, F., Ebrahimi, F., Zakeri-Milani, P., & Valizadeh, H. (2014). Effects of formulation variables and storage conditions on light protected vitamin B12 mixed parenteral formulations. *Advanced pharmaceutical bulletin*, 4(4), 329–338. <https://doi.org/10.5681/apb.2014.048>
- National Research Council (2011). *Prudent practices in the laboratory: Handling and management of Chemical Hazards, updated version*. National Academies Press /cc2011: National Academy of Sciences.
- Pinchuk, S., Vnukov, A., & Cheranov, R. (2019). Peculiarities of producing an electrolytic iron powder from rolling manufacture waste. *Chemistry & Chemical Technology*, 13(1), 121–128. <https://doi.org/10.23939/chcht13.01.121>
- Rakusa, Ž. T., Pišlar, M., Kristl, A., & Roškar, R. (2021). Comprehensive stability study of vitamin D3 in aqueous solutions and liquid commercial products. *Pharmaceutics*, 13(5), 617. <https://doi.org/10.3390/pharmaceutics13050617>
- Razak, N. A., Rahim, N. A., Shaari, A. R., & Leng, L. Y. (2020). Effect of initial moisture content on physical properties of orthosiphon stamineus ground powder during storage. *IOP Conference Series: Materials Science and Engineering*, 932(1), 012024. <https://doi.org/10.1088/1757-899x/932/1/012024>
- Ribeiro, D. O., Pinto, D. C., Lima, L., Volpato, N. M., Cabral, L. M., & De Sousa, V. P. (2011). Chemical stability study of vitamins thiamine, riboflavin, pyridoxine and ascorbic acid in parenteral nutrition for neonatal use. *Nutrition Journal*, 10(1). <https://doi.org/10.1186/1475-2891-10-47>

- Sandler, N., Reiche, K., Heinämäki, J., & Yliruusi, J. (2010). Effect of Moisture on Powder Flow Properties of Theophylline. *Pharmaceutics*, 2(3), 275–290. <https://doi.org/10.3390/pharmaceutics2030275>
- Shih, M., Hwang, T., & Chou, H. (2015). Physicochemical and functional property changes in soy protein isolates stored under high relative humidity and temperature. *Journal of Food Science and Technology*, 53(1), 902–908. <https://doi.org/10.1007/s13197-015-2057-z>
- Singh, P., Wani, A. A., Saengerlaub, S., & Langowski, H.-C. (2011). Understanding critical factors for the quality and shelf-life of Map Fresh Meat: A Review. *Critical Reviews in Food Science and Nutrition*, 51(2), 146–177. doi:10.1080/10408390903531384
- Staveren V. W., & De Groot, L. (2011). Vitamins | Vitamin D. In Elsevier eBooks (pp. 646–651). <https://doi.org/10.1016/b978-0-12-374407-4.00480-5>
- Tang, F., Vasas, M., Hatzakis, E., & Spyros, A. (2019). Magnetic resonance applications in food analysis. *Annual Reports on NMR Spectroscopy*, 239–306. doi:10.1016/bs.arnmr.2019.04.005
- Temova, Ž., & Roskar, R. (2016). Shelf life after opening of prescription medicines and supplements with vitamin D3for paediatric use. *European Journal of Hospital Pharmacy*, 24(2), 115–119. <https://doi.org/10.1136/ejhp pharm-2016-000895>
- Turck, D., Castenmiller, J., De Henauw, S., Hirsch-Ernst, K. I., Kearney, J., Knutsen, H. K., ... van Loveren, H. (2018). Magnesium citrate malate as a source of magnesium added for nutritional purposes to food supplements. *EFSA Journal*, 16(12). doi:10.2903/j.efsa.2018.5484
- Wagner, B. A., & Buettner, G. R. (2023). Stability of aqueous solutions of ascorbate for basic research and for intravenous administration. *Advances in Redox Research*, 9, 100077. <https://doi.org/10.1016/j.arres.2023.100077>
- Williams, J., Kellett, J., Roach, P., McKune, A., Mellor, D., Thomas, J., & Naumovski, N. (2016). L-theanine as a functional food additive: Its role in Disease Prevention and Health Promotion. *Beverages*, 2(2), 13. doi:10.3390/beverages2020013
- Wu, L., Zhang, C., Long, Y., Chen, Q., Zhang, W., & Liu, G. (2021). Food additives: From functions to analytical methods. *Critical Reviews in Food Science and Nutrition*, 62(30), 8497–8517. doi:10.1080/10408398.2021.1929823
- Wu, Z., Wu, Y., Zakhvatayeva, A., Wang, X., Liu, Z., Yang, M., Zheng, Q., & Wu, C. (2022). Influence of moisture content on die filling of pharmaceutical powders. *Journal of Drug Delivery Science and Technology*, 78, 103985. <https://doi.org/10.1016/j.jddst.2022.103985>

Yang, H., Xu, L., Hou, L., Xu, T. C., & Ye, S. H. (2022). Stability of vitamin A, E, C and thiamine during storage of different powdered enteral formulas. *Helijon*, 8(11), e11460.
<https://doi.org/10.1016/j.heliyon.2022.e11460>