

## **BAB V** **KESIMPULAN**

### **5.1. Kesimpulan**

1. Susu nabati dengan formula kadar lemak tertinggi (P2) memiliki kadar total padatan terendah, kadar lemak tertinggi dan kadar protein terendah serta tingkat kecerahan paling tinggi dan tingkat *yellowness* serta *redness* yang paling rendah.
2. Susu nabati P2 memiliki viskositas paling rendah yang paling mendekati susu sapi (0,0020 Pas) yaitu 0,0038 Pas.
3. Susu nabati P2 merupakan perlakuan yang dipilih sebagai perlakuan yang paling baik karena memiliki tingkat kesukaan pada parameter rasa dan nilai total keseluruhan meliputi parameter warna, viskositas aroma dan rasa yang paling tinggi.

### **5.2. Saran**

Hasil penelitian membuktikan bahwa susu nabati yang terbuat dari campuran kacang-kacangan sudah dapat diterima oleh panelis secara umum. Hal ini menunjukkan bahwa penelitian lebih lanjut dapat dilakukan dengan menggunakan sumber bahan baku kacang-kacangan lain sehingga dapat dihasilkan produk susu nabati alternatif lain yang dapat menggantikan susu sapi. Penelitian lanjutan dapat dilakukan untuk mengkaji aplikasi penggunaan susu nabati sebagai bahan baku utama pengganti susu sapi dalam produk pangan berbahan baku susu seperti es krim, yogurt atau keju.

## DAFTAR PUSTAKA

- Alasalvar, C. and F. Shahidi . 2008 . *Tree Nuts : Composition, Phytochemicals, and Health Effects* . USA: CRC Press.
- AOAC. 1990. *Official Methods of Analysis 14<sup>th</sup> Edition*. Washington D.C.: Association of Analytical Chemists.
- ASTM. 2005 . *Standard Test Methods for Rheological Properties of Non-Newtonian Materials by Rotational (Brookfield type) Viscometer* . USA: ASTM International.
- Badan Pusat Statistik . 2014 . Konsumsi Rata-Rata per Kapita Seminggu Beberapa Macam Bahan Makanan Penting, 2007-2014. Badan Pusat Statistik Indonesia.
- Bernat, N., M. Chafer, A. Chiralt and C. G. Martinez . 2014 . Vegetable Milks and Their Fermented Derivative Products. *International Journal of Food Studies* . 3:93-124
- Bewley, J., M. Black and P. Halmer .2006 .*The Encyclopedia of Seeds : Science Technology and Uses* . USA: CABI.
- Brown, A. 2007 . *Understanding Food: Principles and Preparation* . New York: Cengage Learning.
- Coronel, E. 1996. *Pili nut. Canarium ovatum Engl. Promoting the Conservation and Use of Underutilized and Neglected Crops*. 6. Roma: Institute of Plant Genetics and Crop Plant Research, Gatersleben/International Plant Genetic Resources Institute.
- Dantzig, G. 1998 . *Linear Programming and Extensions* . New Jersey: Princeton University Press.
- Djarkasi, G., E. J. N. Nurali, M. F. Sumual and L. E. Lalujan .2011. Analysis of Bioactive Compound in Canarium Nut ( Canarium indicum L.). *Thesis S-3* . Universitas Sam Ratulangi, Manado, Sulawesi Utara.

- Elevitch, C. 2006 . *Traditional Trees of Pacific Islands: Their Culture, Environment, and Use* . USA: Permanent Agriculture Resources.
- Ensminger, M. and A. Ensminger. 1993 . *Foods and Nutrition Encyclopedia, 2<sup>nd</sup> Edition Volume 1* . USA: CRC Press.
- Fiocchi, et al. 2010 . World Allergy Organization (WAO) Diagnosis and Rationale For Action Against Cow's Milk Allergy (DRACMA) Guidelines . *World Allergy Organization Journal* . 3(4) : 57-161.
- Grubben, G. 2004 . *Vegetables* . Netherlands: PROTA.
- Hudson, B. 2012 . *New and Developing Sources of Food Proteins* . New York: Springer Science and Business Media.
- Hui, Y. 2006 . *Handbook of Food Science, Technology and Engineering, Volume 4* . USA: CRC Press.
- Jain, S. and P. Priyadarshan. 2009 . *Breeding Plantation Tree Crops : Temperate Species* . New York: Springer Science and Business Media.
- Jati, I., V. Vadivel, D. Nohr and H.K. Biesalski . 2012 . Nutrient Density Score of Typical Indonesian Foods and Dietary Formulation Using Linear Programming . *Public Health Nutrition* . 15(12): 2185-2192.
- Janick, J. and Robert E. Paul . 2008 . *The Encyclopedia of Fruits and Nuts*. India: CABI .
- Janick, J. 2013 . *Plant Breeding Reviews, Volume 37* . USA: John Willey and Sons.
- Karloff, H. 2008 . *Linear Programming* . New York: Springer Science and Business Media.
- Kementerian Pertanian . 2015 . *Rencana Strategis Kementerian Pertanian Tahun 2015-2019* . Kementerian Pertanian Republik Indonesia.
- Kole, C. 2007 . *Pulses, Sugar and Tuber Crops* . New York: Springer Science and Business Media.

- Lawless, H. and H. Heymann . 2010 . *Sensory Evaluation of Food : Principles and Practices* . New York: Springer Scuence and Business Media.
- Leakey, R., S. Fuller, T. Treloar, L. Stevenson, D.Hunter, T. Nevenimo, J. Binifa and J. Moxon. 2007
- . Characterization of Tree-to-tree Variation in Morphological, Nutritional and Medicinal Properties of *Canarium indicum* Nuts . *Agroforestry Systems* . 73:77-87.
- Luenberger, D. and Y. Ye . 2015 . *Linear and Nonlinear Programming* . New York: Springer.
- Maarse, H. 1991 . *Volatile Compounds in Foods and Beverages* . New York: CRC Press.
- Murray, M., J.E. Pizzono and L. Pizzono .2005 .*The Encyclopedia of Healing Foods* .New York: Simon and Schuester.
- Pond, W. 2004. *Encyclopedia of Animal Science* . New York: CRC Press.
- Siddiq, M. and M.A. Uebersax . 2012 . *Dry Beans and Pulses : Production, Processingand Nutritioins*. USA: John Willey and Sons.
- Singh, B., M. Raj, K.E. Dashiell and L.E.N. Jackai . 1997 . *Advances in Cowpea Research* . UK: Sayce Publishing.
- Singh, P. and D.R. Heldman . 2014 . *Indtrroduction to Food Engineering, Fifth Edition* . USA: Academic Press.
- Smartt, J. and E. Nwokolo . 2012 . *Food and Feed from Legumes and Oilseeds* . New York: Springer Science and Business Media.
- Smith L.M. and T. Dairiki J. 1975 Stability of milk fat emulsions 1 Preparation of model oil-in-water emulsions and evaluation of their stability . *J Dairy Sci* . 58 : 1249
- Ting, K., Y.F. Liu, G.T. Li and Z.L. Hua . 2016 . Relationships Between Viscosity and The Contents of Macromolecular Substances from Milk with Different Storage Styles . *Food Science and Technology* . 4(4): 49-56.

Wright, T. 2012 . *Nuts are Healthy Fruit* . North Carolina : Lulu Enterprises, Inc.

Zamindar, N., M.S. Baghekhandan, A. Nasirpour and M. Sheikhzeinoddin . 2013 . Effect of Line, Soaking and Cooking Time on Water Absorption Texture and Splitting of Red Kidney Beans . *Journal Food Science and Technology* . 50(1): 108-114.