**Supplementary Table S1. Key Regulations and Standards for fermented foods in various countries.**

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| --- | --- | --- | --- |
| **Country** | **Regulations, Legislations, and Standards relevant to fermented foods\*** | **Competent authorities\*** | **Reference** |
| European Union | * General Food Law Regulation **(Regulation (EC) No 178/2002; current consolidated version 26 July, 2019)** * Regulation (EU) 2015/2283 (current consolidated version 27/03/2021) on novel foods * Nutrition and Health Claims Regulation (Regulation (EU) No 1924/2006) | The European Parliament and Council of the European Union, the European Food Safety Authority (EFSA) | (European Parliament and Council of the European Union, 2015;Bell et al., 2017) |
| Russian Federation | * Article 13 and 26 in Hygienic requirements for manufacturing and trafficking of biological active additives to food * Article 12 in Requirements as to Facilities for Ferment and Probiotic Microorganisms production * Technical Regulations for Milk and Milk Products | Government of the Russian Federation | (Russian Federal Law, 2010;Gaskins et al., 2017) |
| USA | * 21 CFR 131.200 (Subpart B: “Requirements for specific standardized milk and cream”) * “*Draft Guidance for Industry: Acidified Foods”* (75FR50268) * Homemade Foods or Cottage Foods legislations in various US States * Wyoming Food Freedom Act, 2015 * 21 CFR 101 “Food Labeling” | US Food and Drug Administration, US Department of health and Human Services, US Federal Government, US State Governments | (US Food and Drug Administration, 2009;Nyanzi et al., 2021) |
| Canada | * Food and Drugs Act * Food and Drug Regulations * National Dairy Code * Safe Food for Canadians Regulations | Canadian Government, Federal/Provincial/Territorial Food Safety Committee | (Canada, 1985;2012;2022) |
| Japan | * Food Sanitation Act (Act No. 233, 1947) * Food for Specified Health Uses Guidelines * New Functional Products Regulation | Ministry of Health, Welfare and Labour, Government of Japan | (Japan, 1996;Iwatani and Yamamoto, 2019) |
| India | * Food Safety and Standards Act * Food Safety and Standards (Food Products Standards and Food Additives) Regulations, 2011 * Food Safety and Standards (Health Supplements, Nutraceuticals, Food for Special Dietary Use, Food for Special Medical Purpose, Functional Food and Novel Food) Regulations, 2016 | Food Safety and Standards Authority of India, Government of India | (India, 2006) |
| China | * Food Safety Law * New Food Raw Materials Regulation * Guobiao or National Standards | Government of the People’s Republic of China | (Chung and Wong, 2013;Laulund et al., 2017) |
| South Korea | * Food Sanitation Act * Food Code * Functional Health Foods Act * Health Functional Food Code * Food Labeling and Advertisement Act | Ministry of Food & Drug Safety, Ministry of Agriculture, Food and Rural Affairs, Prime Minister’s Office | (Lee et al., 2012) |
| Australia & New Zealand | * Australia New Zealand Food Standards Code | Food Standards Australia New Zealand, Government of Australia and New Zealand | (Australia and New Zealand, 2016) |
| Argentina | * Codigo Alimentario Argentino (enforced by Regulatory Decree 2126/71 in 1971) | Ministry of Agriculture, Livestock and Fisheries, Ministry of Health, National Food Commission, Government of Argentina | (Argentina, 1969;Magnuson et al., 2013;Kirchsteiger-Meier and Baumgartner, 2014) |
| Brazil | * Resolution RDC no 331/2019 * Resolution RDC no 359/2003 * Resolution RDC no 51/2010 * Normative Instruction no 41 of September 17, 2019 * Resolution RDC no 240/2018 * Resolution RDC no 241/2018 * Resolution no 16/99 * Resolution no 17/99 * Resolution no 18/99 * Resolution no 19/99 | Ministry of Agriculture, Livestock and Supply,  Ministry of Health, Agência Nacional de Vigilância Sanitária, Government of Brazil | (Brazil, 1999a;d;b;c;2018a;b;c;Colombo et al., 2018;Brazil, 2020;Pineda et al., 2021) |
| South Africa | * Foods, Cosmetics and Disinfectants Act, 1972 * Agricultural Product Standards Act, 1990 | Department of Agriculture, Forestry and Fisheries, the National Department of Health and the Department of Trade and Industry, Government of South Africa | (South Africa, 1972;2015) |
| Singapore | * Sale of Food Act * Sale of Food Act (**Food Regulations**) * Health Supplements Guidelines | Agri-Food & Veterinary Authority of Singapore, Health Sciences Authority of Singapore, Government of Singapore | (Kuan, 1996;Ismail, 2011;Tortajada and Zhang, 2016) |
| Malaysia | * Food Act 1983 ("Act") * Food Regulations 1985 ("Regulations") | Ministry of Health Malaysia, Ministry of Agriculture and Agro-Based Industry Malaysia, Government of Malaysia | (Arora et al., 2013;Nadira et al., 2017) |
| Phillipines | * Consumer Act * Food Safety Act of 2013 (Republic Act No. 10611) * Food and Drug Administration Act of 2009 (Republic Act No. 9711) * Milk Code (Executive Order No. 51, National Code of Marketing of Breast milk Substitutes and Other Related Products) | Food and Drug Administration (FDA), Philippine Department of Health, FDA Center for Food Regulation and Research, Department of Trade and Industry, | (Nor et al., 2016) |

\* Not an exhaustive list

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