

**ASEAN FOOD REFERENCE LABORATORIES (AFRLs)
Areas of Responsibility and Fields of Expertise**

The contact persons and address details of the designated ASEAN Food Reference laboratories.

No.	AFRL	Residing Organization	Contact Person(s)	Tel/Fax	Field of Expertise
1	AFRL for Mycotoxins	Research & Risk Assessment Department, National Centre for Food Science The Singapore Food Agency (SFA)	Ms. Angela Li E-mail: Angela_LI@sfa.gov.sg Ms Yat Yun Wei E-mail: YAT_Yun_Wei@sfa.gov.sg	Tel +6562130722 Fax +6562130839	a. Aflatoxin B1, B2, G1, G2 in peanut, corn, oil, coffee, copra, rice and animal feeds; b. Aflatoxin M1 & M2 in dairy products; c. Ochratoxin A in coffee and wheat products; d. Fumonisin B1 & B2, Deoxynivalenone, Zearalenone in corn and corn products; e. Patulin in Apple juice.
2	AFRL for Pesticide Residues	Food Safety Monitoring & Forensics Department, National Centre for Food Science The Singapore Food Agency (SFA)	Dr. Wu Yuan Sheng E-mail: WU_Yuan_Sheng@sfa.gov.sg Mr. Lim Poh Leong E-mail: LIM_Poh_Leong@sfa.gov.sg	Tel: +6567952818 Tel: +6567852837 Fax+6568619491	Pesticide residues in Food, eg: a. Organophosphorus pesticides b. N-methylcarbamate pesticides c. Pyrethroids d. Organochlorine e. Dithiocarbamates
3	AFRL for Genetically Modified Organisms	Department of Chemistry, Malaysia (DOC)	Ms. Elliza Mat Nor E-mail: elliza@kimia.gov.my	Tel: +6037985 3037 Fax: 03-79853028	Raw and processed foods from plant materials using DNA technique;

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			Dr. Yuveneswari E-mail: yuveneswari@kimia.gov.my		a. Endogenous gene: soy, maize, potato, tomato, rapeseed, papaya, wheat and rice; b. GMO screening: 35S promoter, NOS terminator, pat, bar, cry1A(b), ctp2-cp4 EPSPS, nptII c. Soya events: RRS, MON89788, DP305423, DP356043, A5547-127, A2704-12 d. Maize events: MON810, MON863, Bt11, Bt176, CBH-351 (StarLink), T25, GA21, NK603, DAS59122-7, MON89034, MON88017, TC1507, MIR604 e. Rice events: Bt63, LLRICE62, LLRICE601 f. Rapeseed events: GT73/RT73 g. Potato events: EH92-527-1
4	AFRL for Veterinary Drug Residues	Veterinary Public Health Laboratory (VPHL), Bureau of Quality Control of Livestock Products (BQCLP),	Dr. Chantanee Buranathai E-mail: Chantanee.dld@hotmail.com Dr. Naraya Tangsirirap E-mail : vphl.dr@gmail.com; ntangsirirap@gmail.com	Tel 66-2-9679700 ext 1101 Fax +662 967 9747 Tel 66-2-9679700 ext 2133	Veterinary Drug Residues in foodstuffs of animal origin a. Prohibited substance e.g. Nitrofurans Chloramphenicol Dimetridazole Metronidazole Ronidazole b. B-Agonists c. Antibiotics

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		Department of Livestock Development (DLD), Ministry of Agriculture and Cooperatives (MoAC), Thailand			e.g. Aminoglycosides Macrolides Quinolones/Fluoroquinolones Sulfonamides Tetracyclines d. Anticoccidial Substances e. Steroid/NSAIDs f. Anthelmintics
5	AFRL for Heavy Metals and Trace Elements	Bureau of Quality and Safety of Food (BQSF), Department of Medical Sciences, Ministry of Public Health, Thailand	Pusaya Sangvirun E-mail pusaya.s@dmsc.mail.go.th Sirichai Sunya E-mail sirichai.s@dmsc.mail.go.th	Tel+6629510000 Ext: 99518 Fax +6629511021 Tel+6629510000 Ext: 99578 Fax +6629511021	Heavy metals and trace elements in foods a. Heavy Metals: Mercury, Lead, Cadmium, Arsenic, etc. b. Trace Elements: Nickel, Selenium, Chromium, etc.
6	AFRL for Microbiology	Quatest 3 (Quality Assurance & Testing Centre 3), MOST, Vietnam	Luong Thanh Uyen, E-mail: lt-uyen@quatest3.com.vn Tran Thi Anh Nguyet E-mail: tt-anhnguyet@quatest3.com.vn tn-visinh@quatest3.com.vn	Tel +84-251 383 6212 Fax +84-251 383 6298	a. Pathogenic micro-organisms relevant to food and food products: <i>salmonella</i> , <i>E. coli</i> O157:H7, <i>shigella</i> , <i>Listeria monocytogenes</i> , <i>Campylobacter</i> , <i>Yersinia enterocolytica</i> , <i>Clostridium perfringens</i> , <i>Clostridium botulinum</i> , <i>Bacillus cereus</i> , <i>Staphylococcus aureus</i> , <i>Vibrio parahaemolyticus</i> , <i>Vibrio cholerae</i> , <i>Pseudomonas aeruginosa</i> ; b. Yeasts and molds; c. Indicator bacteria;

No.	AFRL	Residing Organization	Contact Person(s)	Tel/Fax	Field of Expertise
7	AFRL for Food Additives	National Quality Control Laboratory of Drug and Food, National Agency of Drug and Food Control, Republic of Indonesia	Ms. Hermeni Tetrasari Email: fooddivision.ppomn@gmail.com hermini.moeljoso@gmail.com Ms. Cita Tri Aryuni Email: citatri@yahoo.com citatri.19@gmail.com	Tel +62 21 4245075 Fax +62 21 4245150/ 4201427	a. Sweeteners: Saccharin, Acesulfame K, Aspartame, Cyclamic acid, neotam, etc. b. Preservatives: benzoic acid, sorbic acid, methyl paraben, ethyl paraben, propyl paraben, butyl paraben, propionic acid, nitrite, etc. c. Antioxidants: BHA, BHT, Propyl gallate, TBHQ d. Colors: Tartrazine (CI 19140), Sunset yellow FCF (CI. 15985), Azorubine Carmoisine (CI.14720), Ponceau 4R /chochinealred A (CI.16255), Allura red (CI.16035), Brilliant Blue (CI.420090), etc.
8	AFRL for Food Contact Materials	Department of Science Service (DSS) Ministry of Higher Education, Science, Research and Innovation, Thailand	Ms. Nongnuch Mayteeyonpiriya E-mail: nmaytee@dss.go.th Ms. Supattra Charoenkasemwit E-mail: supattra@dss.go.th Mr. Chinawat Tongchat E-mail: chinawat@dss.go.th	Tel: +66 2201 7180 Fax: +66 2201 7181 Tel: +662201 7308 Tel: +662201 7308	Scopes of AFRL for FCM: 1. Plastic 2. Glass 3. Ceramic 4. Metal and Metal Alloy 5. Coating and Varnish 6. Silicone
9	AFRL for Environmental Contaminants	Food Safety Monitoring & Forensics, Department National Centre for Food Science,	Mdm Koh Shoo Peng E-mail: KOH_Shoo_Peng@sfa.gov.sg Ms Peggy Chew E-mail: Peggy_CHEW@sfa.gov.sg	Tel: +6567952818 Tel: +6567952813 Tel: +6567952814	a. Polychlorinated dibenzodioxins (PCDDs), Polychlorinated dibenzofurans (PCDFs) b. Polychlorinated biphenyls (PCBs)

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		The Singapore Food Agency (SFA)		Fax+6568619491	<ul style="list-style-type: none"> c. Polycyclic aromatic hydrocarbons d. Radionuclides (I-131, Cs-134 and Cs-137)
10.	AFRL for Marine Biotoxins and Scombrototoxin	Food Safety Monitoring & Forensics, Department National Centre for Food Science, The Singapore Food Agency (SFA)	<p>Mr. Chua Mun Choy Joachim E-mail: Joachim_CHUA@sfa.gov.sg</p> <p>Ms. Leyau Yu Lee E-mail: Leyau_Yu_Lee@sfa.gov.sg</p>	<p>Tel: +65 67952845</p> <p>Tel: +65 67952816</p>	<ul style="list-style-type: none"> a. Amnesic Shellfish Poison (ASP) b. Azaspiracids (AZA 1,2 & 3) c. Brevetoxins 2 and 3 (PbTx 2 & 3) d. Biotoxins: Okadaic Acid, Domoic Acid, Brevetoxins 2 and 3 e. Diarrhetic Shellfish Poisons (Okadaic Acid) f. Histamine g. Lipophilic Biotoxins: Okadaic acid (OA), Dinophysistoxins (DTX1, DTX2), Pectenotoxin-2 (PTX2), Yessotoxins (YTX, homoYTX) and Azaspiracids (AZA1, AZA2, AZA3) h. Paralytic Shellfish Poison (PSP-ELISA) i. Paralytic Shellfish Poisons (PSP): Saxitoxin (STX), Decarbamoylsaxitoxin (dcSTX), NeoSaxitoxin (NeO), Decarbamoylneosaxitoxin (dcNeO), N-sulfocarbamoyl-gonyautoxin-2 (C1), N-sulfocarbamoyl-gonyautoxin-3 (C2), Gonyautoxin-1 (GTX1), Gonyautoxin-2

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					(GTX2), Gonyautoxin-3 (GTX3), Gonyautoxin-4 (GTX4), Gonyautoxin-5 (GTX5), Gonyautoxin-6 (GTX6), Decarbamoylgonyautoxin-2 (dcGTX2), Decarbamoylgonyautoxin-3 (dcGTX3) j. Tetradoxins (TTX)