

SHORT TERM AND LONG TERM WORK PLAN OF AFRL

On-site visit

14-15 August 2014

Department of Science Service

Thailand

Topics

- **Proficiency Testing Plan**
- **Training Plan**
- **Resource Carter Plan- Provision information of CRMs and RMs**
- **New Method Development Plan**
- **Review of Current Method Plan**
- **Accreditation Plan**

Proficiency Testing Plan

Area	Sample	Scheme detail	Fee (Baht)	No. of Laboratory	Starting date (approximately)	Coordinator
Chemistry	Tuna in oil	Bisphenol A	Free	10	October 2013	Dr.Pochaman Tagheen clpt@dss.go.th
	Ceramic ware	Cd and Pb release from ceramic ware	Free	20	November 2014	Dr.Pochaman Tagheen clpt@dss.go.th
	Plastic	Cd and Pb in plastic	Free	20	April 2015	Dr.Pochaman Tagheen clpt@dss.go.th
	Tin Plate	Tin Coating Weight	Free	20	January 2016	Dr.Pochaman Tagheen clpt@dss.go.th

Training Plan for AMS

Year	Date	Training program	Remark
2014	18-22 August	Food Contact Materials testing: <ul style="list-style-type: none">- Regulation of food contact material in Japan and EU- Analysis of primary aromatic amines- Overall migration into vegetable oil- Analysis of plastic used for milk and milk products- The chemical composition of the metal packaging- Heavy metal released from metal kitchen- Overview of food contact material regulation	
2015	14-15 February	Harmonization of Food Contact Materials Standards among ASEAN	
2016	August	Food Contact Materials testing (subject to the result of the survey from AMS)	

Training Plan for DSS

Year	Date	Training program	Remark
2014	14 March	Important of proficiency Testing for ASEAN Reference Laboratory	
	30 June	Updating of regulation and standards of food contact materials in EU	
	23 July	Packaging Innovation for Business Success	
	18-22 August	Food Contact Materials Testing	
	8 -13 September	Screening test for food contact materials by GC-MS	
2015	13-14 February	Harmonization of Food Contact Materials Standards among ASEAN	
2016		Food Contact Materials Testing (Subject to the hot issue)	

Training Provided by Bureau of Personal Development

Year	Date	Training program	Remark
2014	13-14 November	ISO/IEC 17025 Requirements	
	20-21 November	ISO/IEC 17025 Documentation	
	22-23 December	ISO/IEC 17025 Internal Audits	
2015	12-13 February	ISO/IEC 17025 Requirements	
	7-8 April	ISO/IEC 17025 Documentation	
	11-12 May	ISO/IEC 17043 Requirements	
	23-26 February	AAS Technique	
	23-26 March	GC Technique	
	8-11 June	HPLC Technique	

Resource Center Plan- Provision information of CRMs and RMs

Center for ASEAN Food Contact Materials Testing

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Reference materials/ Certificated reference materials for tests

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<http://foodcontact.dss.go.th/>

Material Type :

1. [Reference materials/ Certificated reference materials for plastic tests.](#)
 2. [Reference materials/ Certificated reference materials for metal and metal alloy tests.](#)
 3. [Reference materials/ Certificated reference materials for ceramic tests.](#)
 4. [Reference materials/ Certificated reference materials for silicone tests.](#)
 5. [Reference materials/ Certificated reference materials for varnish and coating tests.](#)
 6. [Bacteria culture for FCM tests.](#)
- ▀ [Reference materials/ Certificated reference materials used for plastic tests](#)

No.	Lists of reference materials/certified reference materials	Manufacturer	Supplier
1	Atomic spectroscopy standard No. N9300281, 100 mg/L As, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sr, Ti, Tl, V, Zn	PerkinElmer, Inc.	Perkin-Elmer (Thailand) Ltd.
2	Bisphenol A NMIJ CRM No. 4030-a	Sigma Aldrich	Precision Equipment Co.Ltd.
3	Heavy metal (Cd, Cr, Pb) in ABS resin, NMIJ CRM 8102-a : - Cd 10.77 ± 0.20 mg/kg - Cr 27.87 ± 0.35 mg/kg	National Institute Metrology of Japan	NMIJ

New Method Development Plan

Year	Method	Remark
2014	1. Migration test of mineral oil from recycled paper and board, printing ink, plastic article	
	2. Migration test of 4,4-dihydroxydiphenyl sulphone or DHPS or bisphenol S from baby bottle	
2015	1. Determination of NIAS from plastic article	
	2. Heavy metals (Cr, Ni, Mo, Fe) release testing of stainless steel	
	3. Determination of organic compound contaminated in paper and paperboard (Benzophenone, PAHs, phthalates, azo dyes)	
	4. N-nitrostable substances in natural rubber and synthetic rubber	
	5. Formaldehyde release from melamine ware	

New Method Development Plan (cont.)

Year	Method	Remark
2016	1. Migration test of primary aromatic amines from polyamide kitchenware	
	2. Overall migration into Tenax	
	3. Determination of organic compound contaminated in paper and paperboard (Benzophenone, PAHs, phthalates, azo dyes)	

Review of Current Method Plan

- All current methods are reviewed annually prior the management review meeting by assigned staff and approved by technical manager.
- The reviewed method documents are reported in the management review meeting.

Accreditation Plan (ISO/IEC 17025)

Year	Accredited item	Remark
2014	1. Overall migration into: - 3% acetic acid - 10% ethanol - 20% ethanol	
	2. Formaldehyde in textile	
	3. Heavy metals (Pb, Cd, As, Hg, Se, Ba, Cr, Sb) in silicone	
2015	1. Overall migration into vegetable oil	
	2. Melamine leaching from melamine wear, urea formaldehyde, phenol formaldehyde	
	3. Heavy metals (Pb, Cd, Ba, Cr, Sb) in wood	
2016	1. Migration test of formaldehyde from melamine kitchenware	
	2. Nitrosamine in nipple	
	3. Release of heavy metals (Cr, Ni, Mo, Fe) from stainless steel	
	4. Novolac glycidyl ethers and its derivatives in metal canned	

Accreditation Plan (ISO/IEC 17043)

Year	Accredited item	Remark
2016	1. Cd and Pb release from ceramic ware	Ceramic ware
2017	2. Cd and Pb in plastic	Plastic

**Thank you for your
attention!**

