

Name of Laboratory : Chemlab Services (Thailand) Limited
Address : 282 B3 Building, 2nd -4th Floor, Soi Soonvijai 4, Rama IX Road,
Bangkapi, Huaykwang, Bangkok 10310
Accreditation Number : Testing – 0064
Contact Person : Ms. Pranee Kunavetchakit, Ms. Araya Kaewking
Phone : 02-7196488-92 Ext. 102, 104
Fax : -
E-mail : dc@chemlabgroup.com
Initial Issue Date : 27th December 2010
Issue Date : 7th November 2022
Expired date : 6th November 2026
Standard : ISO/IEC 17025:2017
Reference No. : 0303/17003

Scope of Laboratory Accreditation

Laboratory Name : Chemlab Services (Thailand) Limited

Address : 282 B3 Building, 2nd-4th Floor, Soi Soonvijai 4, Rama IX Road,
Bangkapi, Huaykwang, Bangkok 10310

Accreditation Number : Testing - 0064

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1	Workplace noise	- Sound level Equivalent sound level $L_{eq,T}$ 30 dB (A) to 120 dB (A) Maximum sound level L_{max} 30 dB (A) to 120 dB (A) - Time weighted average (TWA) Sound level 30 dB (A) to 120 dB (A) Noise dose 40 dB (A) to 143 dB (A)	In - house method : STP/04/066 based on ISO 1996-2 : 2017 In - house method : STP/04/007 based on Ministerial Regulations Specification of administration standard and the process of safety, industrial hygiene and environmental workplace in respect of heat light and sound BE2549 (2006)

Initial Issue Date 27th December 2010

Issue Number 10

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : Chemlab Services (Thailand) Limited
 Address : 282 B3 Building, 2nd-4th Floor, Soi Soonvijai 4, Rama IX Road,
 Bangkapi, Huaykwang, Bangkok 10310
 Accreditation Number : Testing - 0064
 Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
3	Wastewater	- Copper 0.05 mg/L to 10 mg/L - Iron 0.15 mg/L to 10 mg/L - Lead 0.15 mg/L to 3.0 mg/L	In - house method : STP/01/059 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3111 B, 3030 E In - house method : STP/01/064 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3111 B, 3030 E In - house method : STP/01/060 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3111 B, 3030 E

Initial Issue Date 27th December 2010

Issue Number 10

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : Chemlab Services (Thailand) Limited
 Address : 282 B3 Building, 2nd-4th Floor, Soi Soonvijai 4, Rama IX Road,
 Bangkapi, Huaykwang, Bangkok 10310
 Accreditation Number : Testing - 0064
 Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
3 (cont.)	Wastewater	- Zinc 0.05 mg/L to 10 mg/L - Total dissolved solids dried at 180 °C 65 mg/L to 3 000 mg/L - Total suspended solids dried at 103 °C to 105 °C 8 mg/L to 200 mg/L	In - house method : STP/01/065 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3111 B, 3030 E Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 D

Initial Issue Date 27th December 2010

Issue Number 10

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : Chemlab Services (Thailand) Limited

Address : 282 B3 Building, 2nd-4th Floor, Soi Soonvijai 4, Rama IX Road,
Bangkapi, Huaykwang, Bangkok 10310

Accreditation Number : Testing - 0064

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
3 (cont.)	Wastewater	- Oil and grease 2.5 mg/L to 50 mg/L	In - house method : STP/01/023 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 5520 B
4	Water	- Total dissolved solids dried at 180 °C 45 mg/L to 2 000 mg/L	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 2540 C

Initial Issue Date 27th December 2010

Issue Number 10

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : Chemlab Services (Thailand) Limited
 Address : 282 B3 Building, 2nd-4th Floor, Soi Soonvijai 4, Rama IX Road,
 Bangkapi, Huaykwang, Bangkok 10310
 Accreditation Number : Testing - 0064
 Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
5	Air - Emission from stationary sources	- Hydrogen chloride 0.5 mg/m ³ to 20 mg/m ³ - Chlorine 0.5 mg/m ³ to 20 mg/m ³ - Particulate matter (PM-2.5) 100 µg/m ³ to 40 000 µg/m ³ - Particulate matter (PM-10) 100 µg/m ³ to 40 000 µg/m ³	In – house method : STP/04/069 based on United States Environmental Protection Agency, 2000, EPA Method 26 and 26A (Include sampling) In – house method : STP/04/113 based on United States Environmental Protection Agency, 2017, EPA Method 201A, 202 (Include sampling)

Initial Issue Date 27th December 2010

Issue Number 10

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : Chemlab Services (Thailand) Limited
 Address : 282 B3 Building, 2nd-4th Floor, Soi Soonvijai 4, Rama IX Road,
 Bangkapi, Huaykwang, Bangkok 10310
 Accreditation Number : Testing - 0064
 Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
5 (cont.)	Air - Emission from stationary sources - Workplace air	- Total Suspended Particulate 0.1 mg/m ³ to 400 mg/m ³ - Copper 0.007 mg/m ³ to 0.300 mg/m ³ - Iron 0.007 mg/m ³ to 0.300 mg/m ³	In - house method : STP/04/070 based on United States Environmental Protection Agency, 2019, EPA Method 5 (Include sampling) In - house method : STP/04/092 based on Occupational Safety and Health Administration, OSHA, 2002, method ID 121 (Include sampling) In - house method : STP/04/098 based on Occupational Safety and Health Administration, OSHA, 2002, method ID 121 (Include sampling)

Initial Issue Date 27th December 2010

Issue Number 10

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : Chemlab Services (Thailand) Limited

Address : 282 B3 Building, 2nd-4th Floor, Soi Soonvijai 4, Rama IX Road,
Bangkapi, Huaykwang, Bangkok 10310

Accreditation Number : Testing - 0064

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
5 (cont.)	Air - Workplace air	- Lead 0.015 mg/m ³ to 0.300 mg/m ³ - Zinc 0.008 mg/m ³ to 0.100 mg/m ³ - Chromium 0.008 mg/m ³ to 0.300 mg/m ³	In - house method : STP/04/093 based on Occupational Safety and Health Administration, OSHA, 2002, method ID 121 (Include sampling) In - house method : STP/04/097 based on Occupational Safety and Health Administration, OSHA, 2002, method ID 121 (Include sampling) In - house method : STP/04/096 based on Occupational Safety and Health Administration, OSHA, 2002, method ID 121 (Include sampling)

Initial Issue Date 27th December 2010

Issue Number 10

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : Chemlab Services (Thailand) Limited

Address : 282 B3 Building, 2nd-4th Floor, Soi Soonvijai 4, Rama IX Road,
Bangkapi, Huaykwang, Bangkok 10310

Accreditation Number : Testing - 0064

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
5 (cont.)	Air - Workplace air	- Manganese 0.006 mg/m ³ to 0.300 mg/m ³ - Nickel 0.007 mg/m ³ to 0.300 mg/m ³ - Aluminium 0.15 mg/m ³ to 1.15 mg/m ³	In - house method : STP/04/094 based on Occupational Safety and Health Administration, OSHA, 2002, method ID 121 (Include sampling) In - house method : STP/04/095 based on Occupational Safety and Health Administration, OSHA, 2002, method ID 121 (Include sampling) In - house method : STP/04/099 based on Occupational Safety and Health Administration, OSHA, 2002, method ID 121 (Include sampling)

Initial Issue Date 27th December 2010

Issue Number 10

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : Chemlab Services (Thailand) Limited

Address : 282 B3 Building, 2nd-4th Floor, Soi Soonvijai 4, Rama IX Road,
Bangkapi, Huaykwang, Bangkok 10310

Accreditation Number : Testing - 0064

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
5 (cont.)	Air - Workplace air	- Particulate matter (PM-2.5) 10 $\mu\text{g}/\text{m}^3$ to 40 000 $\mu\text{g}/\text{m}^3$ - Respirable dust 0.15 mg/m^3 to 490 mg/m^3 - Total dust 0.20 mg/m^3 to 830 mg/m^3	In - house method : STP/04/115 based on United States Environmental Protection Agency, 40 CFR, Method IP-10A (Include sampling) In - house method : STP/04/002 based on National Institute for Occupational Safety and Health, NIOSH, 4 th ed., 1998, method 0600 (Include sampling) In - house method : STP/04/001 based on National Institute for Occupational Safety and Health, NIOSH, 4 th ed., 1994, method 0500 (Include sampling)

Initial Issue Date 27th December 2010

Issue Number 10

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : Chemlab Services (Thailand) Limited

Address : 282 B3 Building, 2nd-4th Floor, Soi Soonvijai 4, Rama IX Road,
Bangkapi, Huaykwang, Bangkok 10310

Accreditation Number : Testing - 0064

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
5 (cont.)	Air - Environmental air	- Particulate matter (PM-2.5) $5 \mu\text{g}/\text{m}^3$ to $15\,000 \mu\text{g}/\text{m}^3$ - Particulate matter (PM-10) $5 \mu\text{g}/\text{m}^3$ to $15\,000 \mu\text{g}/\text{m}^3$	In – house method : STP/04/114 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix L (Include sampling) In – house method : STP/04/114 based on U.S. Environmental Protection Agency 40 CFR, method 53 (Include sampling)

Initial Issue Date 27th December 2010

Issue Number 10

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : Chemlab Services (Thailand) Limited
 Address : 282 B3 Building, 2nd-4th Floor, Soi Soonvijai 4, Rama IX Road,
 Bangkapi, Huaykwang, Bangkok 10310
 Accreditation Number : Testing - 0064
 Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
6	Feed	- Moisture 1.1 g/100 g to 76.6 g/100 g - Protein 0.80 g/100 g to 59.3 g/100 g - Fat 1.60 g/100 g to 13.4 g/100 g - Crude fiber 1.80 g/100 g to 7.50 g/100 g - Ash 1.40 g/100 g to 6.40 g/100 g	ISO 6496 : 1999 In – house method : STP/02/080 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 2001.11 AOAC Official Methods of Analysis, 21 st ed., 2019, method 954.02 AOAC Official Methods of Analysis, 21 st ed., 2019, method 978.10 AOAC Official Methods of Analysis, 21 st ed., 2019, method 942.05

Initial Issue Date 27th December 2010

Issue Number 10

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation

Scope of Laboratory Accreditation

Laboratory Name : Chemlab Services (Thailand) Limited

Address : 282 B3 Building, 2nd-4th Floor, Soi Soonvijai 4, Rama IX Road,
Bangkapi, Huaykwang, Bangkok 10310

Accreditation Number : Testing - 0064

Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
6 (cont.)	Feed	- Total aflatoxin 1.0 µg/kg to 25 µg/kg	In - house method : STP/02/067 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 991.31 and 994.08

Initial Issue Date 27th December 2010

Issue Number 10

Bureau of Laboratory Accreditation, Department of Science Service, Ministry of Higher Education, Science, Research and Innovation