

CERTIFICATE OF ACCREDITATION

Eurofins Korea Analytic Service Co., Ltd.

Accreditation No. : KT110

Corporation Registration No. : 110111-2078346

Address of (Branch site) 13, Sanbon-ro 101beon-gil, Gunpo-si, Gyeonggi-do,
Laboratory : Republic of Korea

Date of Initial Accreditation : October 26, 2005

Validity of Accreditation : October 06, 2022 ~ October 05, 2026

Scope of Accreditation : Attached Annex

Date of issue : October 06, 2022

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).



Sanghoon Lee

Head

Korea Laboratory Accreditation Scheme

Korea Laboratory Accreditation Scheme

No. KT110

02. Chemical Testing

02.019 Agricultural and livestock products

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
MFDS Notice No.2022- 48(06.30.2022.)	Agricultural and livestock products	Food code No. 8. Analysis method, 9. Hazardous Substances analysis method in food 9.3 Dioxins 9.3.2 GC/HRMS method	(tetra ~ hexa)CDD: 0.04 pg/g 이상 (hepta ~ octa)CDD: 0.20 pg/g 이상 (tetra ~ hexa)CDF: 0.04 pg/g 이상 (hepta ~ octa)CDF: 0.20 pg/g 이상	BS	N

Korea Laboratory Accreditation Scheme

No. KT110

02. Chemical Testing

02.021 Water Quality

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EPA 1613:1994	Water Quality	Tetra - through Octa-Chlorinated Dioxins and Furans by Isotope Dilution - HRGC/HRMS (TCDD)	4.4 pg/L or more	BS	N
EPA 200.8:1994	Water Quality	Determination of Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry (Cu, Mn, Pb, Zn, Cr, Cd, As, Al, Sb, Ni, Hg)	Cu : 0.5 µg /L or more Mn : 0.1 µg /L or more Pb : 0.6 µg /L or more Zn : 1.8 µg /L or more Cr : 0.9 µg /L or more Cd : 0.5 µg /L or more As : 1.4 µg /L or more Al : 1.0 µg /L or more Sb : 0.4 µg /L or more Ni : 0.5 µg /L or more Hg : 0.2 µg /L or more	BS	N
EPA 245.1:1994	Water Quality	Determination of Mercury in Water by Cold Vapor Atomic Absorption Spectrometry (Hg)	(0.2 ~ 10) µg/L	BS	N
EPA 300.1:1997	Water Quality	Determination of Inorganic Anions in Drinking Water by Ion Chromatography (NO ₃ ⁻ , Cl ⁻ , F ⁻ , SO ₄ ²⁻ , PO ₄ ³⁻ , Br ⁻ , NO ₂ ⁻)	NO ₃ ⁻ : 0.008 mg/L or more Cl ⁻ : 0.004 mg/L or more F ⁻ : 0.009 mg/L or more SO ₄ ²⁻ : 0.019 mg/L or more PO ₄ ³⁻ : 0.019 mg/L or more Br ⁻ : 0.014 mg/L or more NO ₂ ⁻ : 0.001 mg/L or more	BS	N

Korea Laboratory Accreditation Scheme

No. KT110

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EPA 524.2:1995	Water Quality	Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Mass Spectrometry	Total THMs : (0.02 ~ 1.6) µg /L 1,1,1-Trichloroethane : 0.08 µg /L or more Tetrachloroethylene : 0.14 µg /L or more Trichloroethylene : 0.19 µg /L or more Benzene : 0.04 µg /L or more Toluene : 0.11 µg /L or more Ethylbenzene : 0.06 µg /L or more o-Xylene : 0.11 µg /L or more m,p-Xylene : 0.13 µg /L or more 1,1-Dichloroethylene : 0.12 µg /L or more	BS	N

Korea Laboratory Accreditation Scheme

No. KT110

02. Chemical Testing

02.022 Waste water and wastes

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EPA 7471B:2007	Wastewater and Waste Matter	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique) (Hg)	0.000 2 mg/L or more	BS	N
EPA 8015C:2007	Wastewater and Waste Matter	Nonhalogenated Organics By Gas Chromatography (Total Petroleum Hydrocarbons)	10 mg/kg or more	BS	N

Korea Laboratory Accreditation Scheme

No. KT110

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EPA 8260C:2006	Wastewater and Waste Matter	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry(GC/MS)	Waste water Methylene Chloride : 5 ug/L or more Chloroform : 5 ug/L or more Tetrachloromethane : 5 ug/L or more 1,2-Dichloroethane : 5 ug/L or more 1,1,1-Trichloroethane : 5 ug/L or more Benzene : 5 ug/L or more Trichloroethylene : 5 ug/L or more Toluene : 5 ug/L or more Tetrachloroethylene : 5 ug/L or more Ethylbenzene : 5 ug/L or more m,p-xylene : 5 ug/L or more o-xylene : 5 ug/L or more Waste/Sediment Methylene Chloride : 5 ug/kg or more Chloroform : 5 ug/kg or more Tetrachloromethane : 5 ug/kg or more 1,2- Dichloroethane : 5 ug/kg or more 1,1,1-Trichloroethane : 5 ug/kg or more Benzene : 5 ug/kg or more Trichloroethylene : 5 ug/kg or more Toluene : 5 ug/kg or more Tetrachloroethylene : 5 ug/kg or more Ethylbenzene : 5 ug/kg or more m,p-xylene : 5 ug/kg or more o-xylene : 5 ug/kg or more	BS	N

Korea Laboratory Accreditation Scheme

No. KT110

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
NEIR Notice No.2021- 95(12.17.2021.)	Wastewater and Waste Matter	Environmental Standard methods for waste : ES 06502.1b Polychlorinated biphenyl-Gas Chromatography, ES 06502.3b Polychlorinated biphenyl-Gas Chromatography(test method for transformer insulating oil)	Leaching solution 0.000 5 mg/L or more Liquid waste 0.05 mg/L or more Non-impregnated surface 0.05 µg/100 cm ² or more Non-impregnated material 0.005 mg/kg or more Insulating oil 0.5 mg/L or more	BS	N

Korea Laboratory Accreditation Scheme

No. KT110

02. Chemical Testing

02.025 Indoor and other environments

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62321-4:2013 + AMD 1:2017 CSV	Door and Other Environment	Determination of certain substances in electrotechnical products - Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS (excepted : CV-AFS, ICP- OES, ICP-MS)	(4 ~ 1 000) mg/kg	BS	N
IEC 62321-5:2013	Door and Other Environment	Determination of certain substances in electrotechnical products - Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS (excepted:AAS, AFS)	Pb, Cd (ICP-OES) 10 mg/kg 이상 Pb, Cd (ICP-MS) 0.1 mg/kg 이상	BS	N
IEC 62321-6:2015	Door and Other Environment	Determination of certain substances in electrotechnical products - Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry	Individual PBBs : (20 ~ 2 000) mg/kg PBDEs : (20 ~ 2 000) mg/kg Total PBBs : (1 300 ~ 5 000) mg/kg PBDEs : (1 300 ~ 5 000) mg/kg	BS	N
IEC 62321-7- 1:2015	Door and Other Environment	Determination of certain substances in electrotechnical products - Part 7-1: Hexavalent chromium - Presence of hexavalent chromium (Cr(VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method	below 0.10 µg/cm ² : negative (0.10 ~ 0.13) µg/cm ² : inconclusive above 0.13 µg/cm ² : positive	BS	N

Korea Laboratory Accreditation Scheme

No. KT110

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62321-8:2017	Door and Other Environment	Determination of certain substances in electrotechnical products -Part 8: Phthalates in polymers by gas chromatography- mass spectrometry(GC- MS), gas chromatography-mass spectrometry using a pyrolyzer/thermal desorption accessory (excepted: Py/TD-GC- MS)	DIBP : 50 ~ 2 000 mg/kg DEHP : 50 ~ 2 000 mg/kg DBP : 50 ~ 2 000 mg/kg BBP : 50 ~ 2 000 mg/kg DNOP : 50 ~ 2 000 mg/kg DIDP : 50 ~ 2 000 mg/kg DINP : 50 ~ 2 000 mg/kg	BS	N

End.