

제502호 (1/5)

국제공인시험기관인정서

기 관 명 : 전라북도보건환경연구원

대 표 자 : 박 철 응

법 인 등 록 번 호 : -

사업자등록번호 : 418-83-00617

법 인 주 소 : -

사 업 장 소 재 지 : 전북 임실군 임실읍 성가리 55번지(호국로 1601)

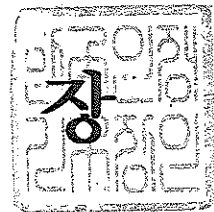
유효 기 간 : 2011년 11월 29일 ~ 2015년 11월 28일

인정분야 및 범위 : 별첨 참조

상기 시험기관을 KS Q ISO/IEC 17025:2006 인정요건 및 국가표준기본법 제23조의 규정에 의거하여 국제공인시험기관으로 인정합니다. 또한 ISO-ILAC-IAF 공동성명(2009.1.8)에 언급된 바와 같이 인정된 분야 및 범위에 대한 기술적 능력과 시험기관 품질경영시스템이 적절함을 인정합니다.

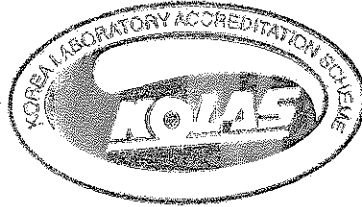
2011년 11월 29일

한 국 인 정 기 구 장



“이면사항기재”

1. 2011. 11. 29 : 최초인정[02.화학시험(02021.수질), 09.생물학적시험(9002.미생물시험)]

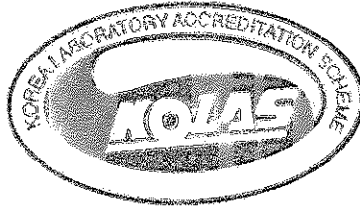


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2. 화학시험

2.021 수질

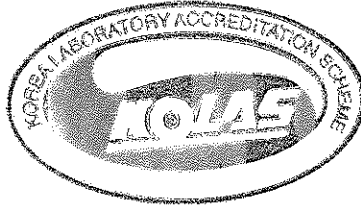
규격번호	규격명	시험범위 및 검출한계
환경부 고시 제 2011-21호(2011.03.02)	먹는물수질공정시험기준	
ES 05402.1a:2011	납-유도결합플라즈마-원자발광분광법	0.005 mg/L
ES 05351.1:2011	불소-이온크로마토그래피	0.15 mg/L
ES 05405.1a:2011	비소-유도결합플라즈마-원자발광분광법	0.005 mg/L
ES 05406.2a:2011	셀레늄-유도결합플라즈마-원자발광분광법	0.005 mg/L
ES 05407.1a:2011	수은-냉증기-원자흡수분광광도법	0.001 mg/L
ES 04353.3:2011	시안-자동분석법	0.01 mg/L
ES 05412.2:2011	크롬-유도결합플라즈마-원자발광분광법	0.02 mg/L
ES 05353.2:2011	암모니아성질소-이온크로마토그래피	0.01 mg/L
ES 05354.1:2011	질산성질소-이온크로마토그래피	0.1 mg/L
ES 05411.2:2011	카드뮴-유도결합플라즈마-원자발광분광법	0.002 mg/L
ES 05404.1a:2011	보론-유도결합플라즈마-원자발광분광법	0.01 mg/L
ES 04365.2:2010	페놀-자동분석법	0.005 mg/L
ES 05501.2:2011	다이아지논-기체크로마토그래피	0.000 5 mg/L
ES 05501.2:2011	파라티온-기체크로마토그래피	0.000 5 mg/L
ES 05501.2:2011	페니트로티온-기체크로마토그래피	0.000 5 mg/L
ES 05502.2:2011	카바릴-기체크로마토그래피	0.005 mg/L
ES 05601.2a:2011	1,1,1-트라이클로로에탄 퍼자트랩-기체크로마토그래피	0.001 mg/L



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2.021 수질(계속)

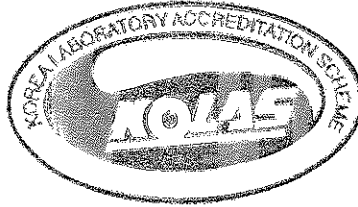
규격번호	규격명	시험범위 및 검출한계
환경부 고시 제 2011-21호(2011.03.02)	먹는물수질공정시험기준(계속)	
ES 05601.2a:2011	테트라클로로에틸렌-퍼지·트랩-기체크로마토그래피	0.001 mg/L
ES 05601.2a:2011	트리클로로에틸렌-퍼지·트랩-기체크로마토그래피	0.001 mg/L
ES 05601.2a:2011	디클로로메탄-퍼지·트랩-기체크로마토그래피	0.002 mg/L
ES 05601.2a:2011	벤젠-퍼지·트랩-기체크로마토그래피	0.001 mg/L
ES 05601.2a:2011	톨루엔-퍼지·트랩-기체크로마토그래피	0.001 mg/L
ES 05601.2a:2011	에틸벤젠-퍼지·트랩-기체크로마토그래피	0.001 mg/L
ES 05601.2a:2011	크실렌-퍼지·트랩-기체크로마토그래피	0.001 mg/L
ES 05601.2a:2011	1,1-디클로로에틸렌-퍼지·트랩-기체크로마토그래피	0.001 mg/L
ES 05601.2a:2011	사염화탄소-퍼지·트랩-기체크로마토그래피	0.001 mg/L
ES 05551.2a:2011	1,2-디브로모-3-클로로프로판-기체크로마토그래피	0.001 mg/L
ES 05602.1:2011	1,4-다이옥산-용매추출/기체크로마토그래프 -질량분석법	0.001 mg/L
ES 05310.1(2):2011	잔류염소-DPD비색법(OT법)	0.05 mg/L
ES 05601.2a:2011	총트리할로메탄-퍼지·트랩-기체크로마토그래피	0.001 mg/L
ES 05601.2a:2011	클로로포름-퍼지·트랩-기체크로마토그래피	0.001 mg/L
ES 05601.2a:2011	브로모디클로로메탄-퍼지·트랩-기체크로마토그래피	0.001 mg/L
ES 05601.2a:2011	디브로모클로로메탄-퍼지·트랩-기체크로마토그래피	0.001 mg/L
ES 05551.2a:2011	클로랄하이드레이트-기체크로마토그래피	0.000 5 mg/L
ES 05551.2a:2011	디브로모아세토니트릴-기체크로마토그래피	0.000 5 mg/L
ES 05551.2a:2011	디클로로아세토니트릴-기체크로마토그래피	0.000 5 mg/L
ES 05551.2a:2011	트리클로로아세토니트릴-기체크로마토그래피	0.000 5 mg/L



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2.021 수질(계속)

규격번호	규격명	시험범위 및 검출한계
환경부 고시 제 2011-21호(2011.03.02)	먹는물수질공정시험기준(계속)	
ES 05552.2:2011	할로아세틱에시드-기체크로마토그래피	0.001 mg/L
ES 05301.1a:2011	경도-EDTA 적정법	1 mg/L
ES 05302.1a:2011	과망간산칼륨소비량	0.3 mg/L
ES 05303.1a:2011	냄새	-
ES 05304.1a:2011	맛	-
ES 05401.2a:2011	동-유도결합플라즈마-원자발광분광법	0.008 mg/L
ES 05305.1a:2011	색도-비색법	1 도
ES 04359.2:2010	세제(음이온계면활성제)-자동분석법	0.1 mg/L
ES 05306.1a:2011	수소이온농도-유리전극법	-
ES 05408.2a:2011	아연-유도결합플라즈마-원자발광분광법	0.002 mg/L
ES 05355.1:2011	염소이온-이온크로마토그래피	0.4 mg/L
ES 05307.1a:2011	중발잔류물	5 mg/L
ES 05410.3:2011	철-유도결합플라즈마-원자발광분광법	0.05 mg/L
ES 05403.2a:2011	망간-유도결합플라즈마-원자발광분광법	0.005 mg/L
ES 05308.1a:2011	탁도	0.02 NTU
ES 05356.1:2011	황산이온-이온크로마토그래피	2 mg/L
ES 05409.2:2011	알루미늄-유도결합플라즈마-원자발광분광법	0.02 mg/L



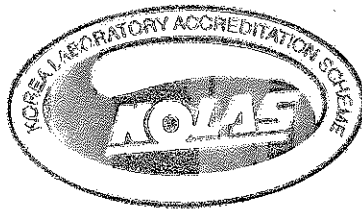
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9. 생물학적시험

9.002 미생물시험

규격번호	규격명	시험범위 및 검출한계
환경부 고시 제 2011-21호 (2011.03.02)	먹는물수질공정시험기준	
ES 05702.1:2011	일반세균(중온)-평판집락법	0
ES 05703.1:2011	총대장균군-시험관법	-
ES 05704.1a:2011	분원성대장균군-시험관법	-

끝.



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CERTIFICATE OF ACCREDITATION

Name of Laboratory : Public Health & Environment Research Institute of Jeollabuk-do

Representative : Park, Cheol-woong

Address of Headquarters : 1601,Hoguk-ro(55,Seongga-ri),Imsil-eup,Imsil-gun.Jeollabuk-do,566-806

Address of Laboratory : 1601,Hoguk-ro(55,Seongga-ri),Imsil-eup,Imsil-gun.Jeollabuk-do,566-806

Duration : November 29, 2011 ~ November 28, 2015

Scope of Accreditation

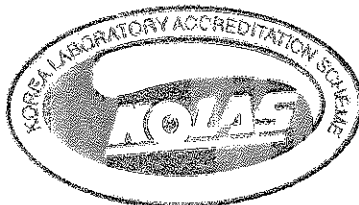
(Scope of Accreditation is described in the accompanying Annex)

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025 : 2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 8 January 2009).

November 29, 2011

Administrator,

Korea Laboratory Accreditation Scheme(KOLAS)

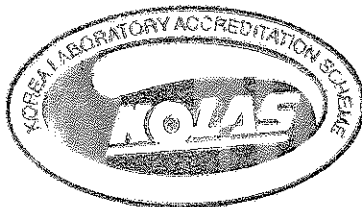


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2. Chemical Test

2.021 Water Quality

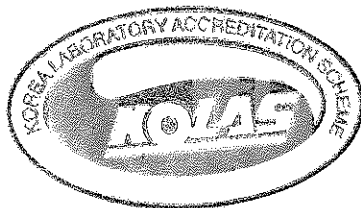
Test method	Standard designation	Test range or Limits of detection
Notification No.2011-21 of the Ministry of Environment (2011.03.02)	Korea Official Methods for the Examination of Drinking Water	
ES 05402.1a:2011	Lead(pb)-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.005 mg/L
ES 05351.1:2011	Fluoride(F)- Ion Chromatography	0.15 mg/L
ES 05405.1a:2011	Arsenic(As)-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.005 mg/L
ES 05406.2a:2011	Selenium(Se)-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.005 mg/L
ES 05407.1a:2011	Mercury(Hg)-Cold Vapor/Atomic Absorption Spectrometry	0.001 mg/L
ES 04353.3:2011	Cyanide(CN)-Continuous Flow Analysis	0.01 mg/L
ES 05412.2:2011	Chromium(Cr)-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.02 mg/L
ES 05353.2:2011	Ammonium Nitrogen(NH ₃ -N)-Ion Chromatography	0.01 mg/L
ES 05354.1:2011	Nitrate Nitrogen(NO ₃ -N)- Ion Chromatography	0.1 mg/L
ES 05411.2:2011	Cadmium(Cd)-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.002 mg/L
ES 05404.1a:2011	Boron(B)-Inductively Coupled Plasma-Atomic Emission Spectrometry	0.01 mg/L
ES 04365.2:2010	Phenols-Continuous Flow Analysis	0.005 mg/L
ES 05501.2:2011	Diazinon-Gas Chromatography	0.000 5 mg/L
ES 05501.2:2011	Parathion-Gas Chromatography	0.000 5 mg/L
ES 05501.2:2011	Fenitrothion-Gas Chromatography	0.000 5 mg/L
ES 05502.2:2011	Carbaryl-Gas Chromatography	0.005 mg/L
ES 05601.2a:2011	1-1-1-Trichloroethane-Purge-Trap-Gas Chromatography	0.001 mg/L



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2.021 Water Quality(Cont.)

Test method	Standard designation	Test range or Limits of detection
Notification No.2011-21 of the Ministry of Environment (2011.03.02)	Korea Official Methods for the Examination of Drinking Water(Cont.)	
ES 05601.2a:2011	Tetrachloroethylene-Purge-Trap -Gas Chromatography	0.001 mg/L
ES 05601.2a:2011	Trichloroethylene-Purge-Trap -Gas Chromatography	0.001 mg/L
ES 05601.2a:2011	Dichloromethane-Purge-Trap -Gas Chromatography	0.002 mg/L
ES 05601.2a:2011	Benzene-Purge-Trap-Gas Chromatography	0.001 mg/L
ES 05601.2a:2011	Toluene-Purge-Trap-Gas Chromatography	0.001 mg/L
ES 05601.2a:2011	Ethylbenzene-Purge-Trap-Gas Chromatography	0.001 mg/L
ES 05601.2a:2011	Xylene-Purge-Trap-Gas Chromatography	0.001 mg/L
ES 05601.2a:2011	1,1-Dichloroethylene-Purge-Trap -Gas Chromatography	0.001 mg/L
ES 05601.2a:2011	Carbon tetrachloride-Purge-Trap -Gas Chromatography	0.001 mg/L
ES 05551.2a:2011	1,2-Dibromo-3-chloropropane -Gas Chromatograph	0.001 mg/L
ES 05602.1:2011	1,4-Dioxane-Liquid Extraction/Gas Chromatograph-Mass Spectrometry	0.001 mg/L
ES 05310.1(2):2011	Residual Chlorine-DPD(OT)Colorimetry	0.05 mg/L
ES 05601.2a:2011	THMs-Purge-Trap-Gas Chromatography	0.001 mg/L
ES 05601.2a:2011	Chloroform-Purge-Trap -Gas Chromatography	0.001 mg/L
ES 05601.2a:2011	Bromodichloromethane-Purge-Trap -Gas Chromatography	0.001 mg/L
ES 05601.2a:2011	Dibromochloromethane-Purge-Trap -Gas Chromatography	0.001 mg/L
ES 05551.2a:2011	Chloralhydrate-Gas Chromatography	0.000 5 mg/L
ES 05551.2a:2011	Dibromoacetonitrile-Gas Chromatography	0.000 5 mg/L
ES 05551.2a:2011	Dichloroacetonitrile-Gas Chromatography	0.000 5 mg/L
ES 05551.2a:2011	Trichloroacetonitrile-Gas Chromatography	0.000 5 mg/L



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2.021 Water Quality(Cont.)

Test method	Standard designation	Test range or Limits of detection
Notification No.2011-21 of the Ministry of Environment (2011.03.02)	Korea Official Methods for the Examination of Drinking Water(Cont.)	
ES 05552.2:2011	Haloacetic acid-Gas Chromatography	0.001 mg/L
ES 05301.1a:2011	Hardness-EDTA Titrimetric Method	1 mg/L
ES 05302.1a:2011	Consumption of KMnO_4	0.3 mg/L
ES 05303.1a:2011	Odor	-
ES 05304.1a:2011	Taste	-
ES 05401.2a:2011	Copper(Cu)-Inductively Coupled Plasma- Atomic Emission Spectrometry)	0.008 mg/L
ES 05305.1a:2011	Color-Visual Comparison Method	1 도
ES 04359.2:2010	Surfactants-Continuous Flow Analysis	0.1 mg/L
ES 05306.1a:2011	pH-Electrometric Method	-
ES 05408.2a:2011	Zinc(Zn)-Inductively Coupled Plasma- Atomic Emission Spectrometry)	0.002 mg/L
ES 05355.1:2011	Chloride(Cl^-)-Ion Chromatography	0.4 mg/L
ES 05307.1a:2011	Total Solids	5 mg/L
ES 05410.3:2011	Iron(Fe)-Inductively Coupled Plasma- Atomic Emission Spectrometry)	0.05 mg/L
ES 05403.2a:2011	Manganese(Mn)-Inductively Coupled Plasma- Atomic Emission Spectrometry)	0.005 mg/L
ES 05308.1a:2011	Turbidity	0.02 NTU
ES 05356.1:2011	Sulfate(SO_4^{2-})-Ion Chromatography	2 mg/L
ES 05409.2:2011	Aluminium(Al)-Inductively Coupled Plasma- Atomic Emission Spectrometry)	0.02 mg/L



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9. Biological test

9.002 Microorganism test

Test method	Standard designation	Test range or Limits of detection
Notification No.2011-21 of the Ministry of Environment (2011.03.02)	Korea Official Methods for the Examination of Drinking Water	
ES 05702.1:2011	Total Colony Counts (Total Colony Counts in 35 °C - Pour Plate Method)	0
ES 05703.1:2011	Total Coliforms (Total Coliforms-Multiple Tube Fermentation Technique)	-
ES 05704.1a:2011	Fecal Coliforms (Fecal Coliforms-Multiple Tube Fermentation Technique)	-

End.