

شهادة اعتماد

رقم TL 038



يقر نظام الاعتماد العراقي بأن:
مختبرات شركة لوكس للسيطرة النوعية واصدار الشهادات
العراق - اقليم كردستان - السليمانية - حي شورش

تم اعتمادها وفقا لمتطلبات المواصفة ISO/ IEC 17025:2017
(المتطلبات العامة لاهلية مختبرات الفحص والمعايرة)

في مجال:

- اختبارات المواد الانشائية
- اختبارات المواد المعدنية
- اختبارات المواد البلاستيكية
- اختبارات المواد الغذائية
- اختبارات المواد الكيميائية
- اختبارات المواد البترولية والبتروكيمياوية

شرط التوافق مع متطلبات المواصفة اعلاه ومتطلبات IQAS الخاصة بالاعتماد
مجال الاعتماد المرفق بالشهادة يعتبر جزءا لا يتجزء منها

يمكن الحصول على الاصدار الاحدث من مجال الاعتماد من خلال الموقع الالكتروني

<https://iqas.mop.gov.iq>

يكون الاعتماد نافذا من ٢٠٢٤/٢/٤ الى ٢٠٢٦/٢/٣

تاريخ منح الاعتماد لأول مرة
٢٠١٩/٧/٢٥

أ.د. محمد علي تميم
نائب رئيس مجلس الوزراء
وزير التخطيط

د. محمد لطيف أحمد
مدير عام الهيئة العراقية للاعتماد

ACCREDITATION CERTIFICATE

No. TL 038



Iraqi Accreditation System Certify that:

Laboratories of Lox Company for Quality Control and Certificate Issuance

Iraq- Kurdistan region – Sulaymaniyah – Shorash hay

Is accredited according to the requirements of the standard ISO/IEC 17025:2017
(General Requirements for the Competence of Testing and Calibration Laboratories)

In the field of:

- Construction Materials Testing
- Metallurgical Materials Testing
- Polymer Materials Testing
- Food Materials Testing
- Chemical material Testing
- Petroleum & Petrochemical Materials Testing

This accreditation is subject to with the above standard & IQAS requirements
The scope of accreditation is attached to the certificate & considered as part of it

The most recent issue of the accreditation scope is available on IQAS website
<https://iqas.mop.gov.iq>

Accreditation is valid From 4/2/2024 To 3/2/2026

Initial accreditation date
25/7/2019

Dr. Mohammed Lateef Ahmed
General Manager of IQAS

Dr. Mohammed Ali Tamim
Deputy Prime Minister
Minister of Planning

	استمارة مجال الاعتماد Scope of Accreditation form	نظام الاعتماد العراقي IQAS
Organization address: Iraq- Kurdistan region – Sulaymaniyah – Shorash hay	Organization name : Laboratories of Lox Company for Quality Control and Certificate Issuance	Accreditation no.: TL 038
Signature:  Abdul Wahid Mohammed Ibrahim Deputy General Manager	Accreditation is valid: From 12/2/2024 To 11/2/2026	Issue no. : 003

Testing field	Type of test	Test object or product	Reference to standardized method
Molecular-Microbiological testing	Detection of <i>Salmonella</i> in food by qPCR	Food products	AOAC certified method
Molecular-Microbiological testing	Detection of <i>E. coli</i> O157 in food by qPCR	Food products	AOAC certified method
Microbiological testing	Enumeration of <i>Clostridium</i> species un canned food	Food products	IQS 2270-3- issued 2006 Amended 2014 and 2019
Microbiological testing	Enumeration of <i>E. coli</i> / fecal coliform in food by 3M Petrifilm	Food products	AOAC Official method 991.14 by dry rehydratable film (Petrifilm TM <i>E. coli</i> /coliform count plate TM and Petrifilm TM coliform plate) method
Microbiological testing	Rapid yeast and mold in food by 3M Petrifilm	Food products	AOAC Official method 2014.05 3M TM Petrifilm TM Rapid yeast and mold count plate
Microbiological testing	Total count in food by 3M Petrifilm	Food products	AOAC Official method 2015.13 3M TM Petrifilm TM Rapid aerobic count plate method
Microbiological testing	<i>Staphylococcus aureus</i> in food by 3M Petrifilm	Food products	AOAC Official method 2003.07 3M TM Petrifilm TM Staph express count plate method
Chemical testing	Heavy metal testing (Cd, Co, Cr, Cu, Fe, Mg, Mo, Ni, Pb, As, Sn, Sr, Ti, Tl, V, Zn)	Food & drinks, Cosmetics, detergents, plastics, Soil, papers...etc.	LOX test method
Chemical testing	NaCl (Table salt) content	Food products	LOX test method

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Chemical testing	Fat content	Food products	LOX test method
Chemical testing	Acidity (as lactic acid)	Food products	LOX test method
Chemical testing	Moisture	Food products	LOX test method
Chemical testing	Dry matter	Food products	LOX test method
Chemical testing	Starch	Food products	LOX test method
Chemical testing	Gluten	Food products	LOX test method
Chemical testing	Protein content	Food products	LOX test method
Chemical testing	pH	Water	ISO 10523
Chemical testing	EC	Water	ISO 7888
Chemical testing	TDS	Water	ISO 23446
Chemical testing	IR	Identification plastic type	LOX test method
Chemical testing	Iodine content	Table salt	IQS 0111
Chemical testing	Acesulfame	Soft drink	IQS 1266:1996
Chemical testing	benzoic acid	Soft drink	ISO 9231:2008
Chemical testing	Sorbic acid	Soft drink	ISO 9231:2008
Chemical testing	Aspartame	Soft drink	LOX test method
Chemical testing	Caffeine	Soft drink	LOX test method
Chemical testing	saccharine	Soft drink	LOX test method
Chemical testing	pH	Powder detergent	IQS 1276
Petroleum & Petrochemical material testing sector	Flash point	Gasoil and Oil	ASTM D 7094, ASTM D92
Petroleum & Petrochemical material testing sector	Pour point and cloud point	Gasoil and Oil	ASTM D 97
Petroleum & Petrochemical material testing sector	Freezing point	Fuel (Kerosene, gasoil, gasoline, Naphtha, ethanol, etc) and oil	ASTM D97
Petroleum &	Density	Fuel (Kerosene, gasoil,	ASTM D4052 (Densometer)

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Petrochemical material testing sector		gasoline, Naphtha, ethanol, etc) and oil	
Petroleum & Petrochemical material testing sector	Distillation	Fuel (Kerosene, gasoil, gasoline, Naphtha, ethanol, etc)	ASTM D86
Petroleum & Petrochemical material testing sector	Ceatan index	Gasoil and gasoline	ASTM D7806
Petroleum & Petrochemical material testing sector	Viscosity	Fuel (Kerosene, gasoil, gasoline, Naphtha, ethanol, etc) and oil	ASTM D445
Petroleum & Petrochemical material testing sector	Sulfur content	Fuel (Kerosene, gasoil, gasoline, Naphtha, ethanol, etc) and oil	ASTM D2622
Petroleum & Petrochemical material testing sector	Heavy metals and trace elements	Fuel (Kerosene, gasoil, gasoline, Naphtha, ethanol, etc) and oil	ASTM D8064 (XRF)
Petroleum & Petrochemical material testing sector	Vapor pressure	Gasoline	ASTM D5191 (ERAVAP)
Petroleum & Petrochemical material testing sector	Octane number	Gasoline	ERASPEC
Petroleum & Petrochemical material testing	Benzene content	Gasoline	ERASPEC

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sector			
Petroleum & Petrochemical material testing sector	Olefin content	Gasoline	ERASPEC
Petroleum & Petrochemical material testing sector	Aromatic content	Gasoline	ERASPEC
Petroleum & Petrochemical material testing sector	Oxygen & oxygenate content	Gasoline	ERASPEC
Mechanical testing	Mechanical Properties (Tensile Strength, Yield Strength, Elongation	Ribbed Carbon-Steel Bars for Concrete Reinforcements	ASTM A370/2020 ASTM E8M/2016a
Mechanical testing	Mechanical Properties (Tensile Strength, Yield Strength, Elongation	Ribbed Carbon-Steel Bars for Concrete Reinforcements	ISO 6892-1/2019 ISO 15630-1/2019
Mechanical testing	Mechanical Properties (Tensile Strength, Yield Strength, Elongation	Ribbed Carbon-Steel Bars for Concrete Reinforcements	BS 4449/2016
Mechanical testing	L.O.I	Cement and Gypsum	IQS 472+A5:2018, IQS 273:2012
Mechanical testing	Setting time by Vicat	Cement	IQS 198+A3:2016
Mechanical testing	Flexural strength	Cement and Gypsum	IQS 198+A3:2016, IQS 273:2012
Mechanical testing	Compressive strength	Cement, Gypsum,	IQS 198+A3:2016, IQS1042:2011
Mechanical	Dimension	Stones and Cellular Concrete	, IQS 65/3:2016, IQS 810:09]A2:2015+[IQS

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		Blocks[thermstone],Clay building brick, Clay facing brick	24:1988,ASTM C 67:2021
Mechanical testing	Soundness by Le Chatelier	Cement	IQS 198+A3:2016
Mechanical testing	Free Water	Gypsum	IQS 273:2012
Mechanical testing	Combined Water	Gypsum	IQS 273:2012
Mechanical testing	Fineness	Gypsum	IQS1042:2011
Mechanical testing	Setting Time	Gypsum	[+A2:2015]
Mechanical testing	Dimension & Shape	Terrazzo Tiles	IQS 31:1989
Mechanical testing	Total Water Absorption	Terrazzo Tiles	IQS 31:1989
Mechanical testing	Water Absorption by tile-face	Terrazzo Tiles	IQS 31:1989
Mechanical testing	Transverse Strength	Terrazzo Tiles	IQS 31:1989
Mechanical testing	Water Absorption	Ceramic tiles and Cellular Concrete Blocks[thermstone], Clay building brick, Clay facing brick	ISO 10545-3:2019, IQS 810:09, IQS 24:1988,ASTM C 67:2021
Mechanical testing	Dimension & surface quality	Ceramic tiles	ISO 10545- 2:2018
Mechanical testing	Breaking Strength	Ceramic tiles	ISO 10545- 4:2019
Mechanical testing	Modulus of Rupture	Ceramic tiles and Dimension Stones	ISO 10545- 4:2019
Mechanical testing	Water absorption & bulk density	Dimension Stones	IQS 1387:2017
Mechanical testing	Mass per unit length tolerance	Steel Bars for concrete reinforcement	ASTM E8M:2022, BS 4449:2016
Mechanical testing	Tensile strength, Yield strength, Elongation	Steel Bars for concrete reinforcement	ASTM A370:2021
Mechanical testing	Bend Test, Rebernd test	Steel Bars for concrete	ASTM E290:2022, ISO

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		reinforcement	7438:2016, ISO 7438:2016
Mechanical testing	Diameter tolerance	Steel Bars for concrete reinforcement	ISO 6892-1:2109
Mechanical testing	Tensile strength, Yield strength after ageing	Steel Bars for concrete reinforcement	ISO 6892-1:2109, ISO 6892-1:2019
Mechanical testing	Elongation(after fracture,	Steel Bars for concrete	ISO 15630-1:2019, ISO 15630-
Mechanical	total Eat max force)	reinforcement	1:2019
Mechanical testing	Markings	Steel Bars for concrete reinforcement	ISO 6935:2019
Mechanical testing	Strength test [with & across fiber grain]	Bitumen felt waterproofing[isogam]	IQS 4+A1:2013
Mechanical testing	Loss on heating	Bitumen felt waterproofing[isogam]	IQS 4+A1:2013
Mechanical testing	Thermal stability	Bitumen felt waterproofing[isogam]	IQS 4+A1:2013
Mechanical testing	Dimension Tolerance	Cellular Concrete Blocks[thermstone]	IQS 810:09
Mechanical testing	Dry bulk Density	Cellular Concrete Blocks[thermstone]	IQS 810:09
Mechanical testing	Initial Tensile Adhesion Strength Test	Cementitious Adhesives	ISO 13007-2:2013 EN 12004-2:2017
Mechanical testing	Tensile Adhesion Strength after water immersion	Cementitious Adhesives	ISO 13007-2:2013 EN 12004-2:2017
Mechanical testing	Tensile Adhesion Strength after heat aging	Cementitious Adhesives	ISO 13007-2:2013 EN 12004-2:2017
Mechanical testing	Determination of Slip	Cementitious Adhesives	ISO 13007-2:2013 EN 12004-2:2017
Mechanical testing	Extended open time	Cementitious Adhesives	ISO 13007-2:2013 EN 12004-2:2017
Mechanical testing	Flexural breaking	Gypsum Board	ASTM C 473:2019

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Polymer material testing sector	Geometrical Characteristics	PVC-U pipes within the building structure PVC-U pipes for non-pressure underground pipes Polyethylene (PE) pipes for water supply & for drainage	ISO 3126:2005, IQS 1512:2022, IQS 5037:2022, ISO 4427-2:2019
Polymer material testing sector	Impact resistance (round the clock method)	PVC-U pipes	EN ISO 3127:2017, IQS 1512:2022, IQS 5037:2022
Polymer material testing sector	Vicat softening temperature	PVC-U pipes	EN ISO 2507-1:2017 IQS 1512:2022, IQS 5037:2022
Polymer material testing sector	Longitudinal reversion (air oven method)	PVC-U pipes & PE pipes	EN ISO 2505:2005 IQS 1512:2022, IQS 5037:2022, ISO 2505
Polymer material testing sector	Elongation at break	PVC-U pipes & PE pipes	EN ISO 6259-1:2005, ISO 6259-2:2020, IQS 1512:2022, IQS 5037:2022

