

شهادة اعتماد
Accreditation Certificate



يشهد المركز السعودي للاعتماد (ساك) بأن
Saudi Accreditation Center (SAC) Declare that

Australian Laboratory Services Arabia Co. Lab.

Address: Jeddah

Scope : Chemical and Petroleum

مختبر شركة خدمات المعامل الأسترالية العربية

العنوان: جدة

المجال : الكيمائية والبترولية

قد حقق متطلبات المركز السعودي للاعتماد (ساك) وتم اعتماده وفقاً لمتطلبات المواصفة القياسية السعودية
ساسو / آيزو / آي إي سي (2017) : 17025 وذلك في المجال الملحق بهذه الشهادة
Has met the Requirements of Saudi Accreditation Center (SAC) and has been accredited in compliance
with SASO/ISO/IEC 17025:(2017) for the scope attached with this Certificate

هذه الوثيقة مرسلة من النظام الآلي ولا تحتاج إلى توقيع

للتحقق من صلاحيتها يرجى مسح رمز الاستجابة أسفل الصفحة



03/05/1445 : تاريخ الانتهاء / Expire Date

03/04/1439: تاريخ الاصدار / Issue Date

N-T-00044

اسم: مختبر شركة خدمات المعامل الأسترالية العربية
تاريخ الانتهاء: 1445-05-03

رقم الشهادة: N-T-00044
تاريخ الاصدار: 1439-04-03

م	المواد/المنتجات المختبرة	الاختبار	المواصفات المستخدمة	وصف المعدات المستخدمة
1	Analysis of samples from the mining exploration industry including rocks, drill core soils, steam sediments and power pulps	Trace level and Ore grade gold analysis by lead fire assay and AA determination. Working ranges: (0.005-10) ppm ($\mu\text{g/g}$) of Au (0.01- 100) ppm ($\mu\text{g/g}$) of Au	Geochem Gold Fire Assay using Lead Collection and AA Finish. In-House Method Au-AA23(30g)/Au-AA24(50g) Au-AA25(30g)/Au-AA26(50g)	Atomic absorption spectroscopy (AAS)



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Inductively- Coupled Plasma (ICP-AES)	in-house methods a) GEO-AR01, Aqua Regia Digestion for ICP b) ME-ICP41, Multi Element Analysis of Geochemical Samples By Atomic Emission Method With Inductively- Coupled Plasma (ICP-AES)	Multi-element ICP-AES analysis following Aqua Regia digestion. Elements (low reporting limit/upper limit)-units are ppm (µg/g) unless indicated otherwise Ag (0.2/100), Al (0.01/25.00%), As (2/10000), B (10/10000), Ba (10/10000), Be (0.5/1000), Bi (2/10000), Ca (0.01/25.0%), Cd (0.5/1000), Co (1/10000), Cr (1/10000), Cu (1/10000), Fe (0.01/50.0%), Ga (10/10000), Hg (1/10000), K (0.01/10.0%), La (10/10000), Mg (0.01/25.0%), Mn (5/50000), Mo (1/10000), Na (0.01/10.00%), Ni (1/10000), P (10/10000), Pb (2/10000), S (0.01/10.0%), Sb (2/10000), Sc (1/10000), Sr (1/10000), Th (20/10000), Ti (0.01/10), Tl (10/10000), U (10/10000), V (1/10000), W (10/10000), Zn (2/10000)	Ores and Minerals, Geochemical samples for trace elements, Analysis of samples from the mining exploration industry including rocks, drill core soils, steam sediments and power pulps	2
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Inductively- Coupled Plasma (ICP-AES)	in-house methods a) GEO-4ACID, 4 Acid Digestion for ICP analysis b) ME-ICP61, Multi Element Analysis Of Geochemical Samples By Atomic Emission Method With Inductively- Coupled Plasma (ICP-AES)	Multi-element ICP-AES analysis following 4-acid digestion. Elements (low reporting limit/upper limit) –units are ppm (µg/g) unless indicated otherwise Ag (0.5/100), Al (0.01/50.00%), As(5/10,000), Ba (10/10000), Be (0.5/1000), Bi (2/10000), Ca (0.01/50.0%), Cd (0.5/1000), Co (1/10000), Cr (1/10000), Cu (1/10000), Fe (0.01/50.0%), Ga (10/10000), K (0.01/10.0%), La (10/10000), Mg (0.01/50.0%), Mn (5/100000), Mo (1/10000), Na (0.01/10.00%), Ni(1/10000), P (10/10000), Pb (2/10000), S (0.01/10.0%), Sb (5/10000), Sc (1/10000), Sr (1/10000), Th (20/10000), Ti (0.01/10%), Tl (10/10000), U (10/10000), V (1/10000), W (10/10000), Zn (2/10000)	Ores and Minerals, Geochemical samples for trace elements, Analysis of samples from the mining exploration industry including rocks, drill core soils, steam sediments and power pulps	3
Inductively- Coupled Plasma (ICP-AES)	in-house methods: (a) ASY-AR01, Aqua Regia Digestion for ICP-AES analysis (b) ME-OG46, Multi Element Analysis of Low-Grade Ore Samples or Rock Samples with some mineralization with Inductively Coupled Plasma (ICP-AES)	(ME-OG46) Digestion of Base Metal Ores using Aqua Regia (Test Tube – Hotblock Digestion). Elements (low reporting limit/upper limit)-units are % unless indicated otherwise Ag (1/1500 ppm), As (0.01/60),Cd (0.001/10),Co (0.001/20),Cu (0.001/40), Fe (0.01/100),Mn (0.01/50), Mo (0.001/10),Ni (0.001/10), Pb (0.001/20),S (0.01/10), Zn (0.001/30).	Ores and Minerals, Geochemical samples for trace elements, Analysis of samples from the mining exploration industry including rocks, drill core soils, steam sediments and power pulps Copper ores, Lead ores, Zinc ores, Nickel ores and Other ores	4



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Inductively- Coupled Plasma (ICP-AES)	in-house methods: (a) ASY-4A01, Four Acid Digestion for ICPAES analysis (b) ME-OG62, Multi Element Analysis of Base Metal Ores with Inductively Coupled Plasma (ICP-AES)	(ME-OG62) Digestion of Base Metal Ores using Four Acids-Ore Grade Analysis (Teflon Test Tube – Hotblock Digestion). Elements (low reporting limit/upper limit)-units are % unless indicated otherwise: Ag (1/1500 ppm),As (0.001/30),Cd (0.001/10),Co (0.001/20), Cr(0.002/30),Cu (0.001/40), Fe (0.01/100), Mn (0.01/50),Mo (0.001/10),Ni (0.001/30),Pb (0.001/20), S (0.01/50), Zn (0.001/30)	Ores and Minerals, Geochemical samples for trace elements, Analysis of samples from the mining exploration industry including rocks, drill core soils, steam sediments and power pulps Copper ores, Lead ores, Zinc ores, Nickel ores and Other ores	5
Carbon / Sulfur Analyzer ELEMENTRAC CS□i Leco Furnace and Infrared Spectroscopy	in-house methods Total Sulphur S-IR08 measured by IR Detection System (ELTRA \ LECO Analyser)	Total Sulphur S-IR08 (LECO) – Ores and High Grade Materials. Working Range (0.01 – 50%)	Ores and Minerals Geochemical samples for trace elements Analysis of samples from the mining exploration industry including rocks, drill core soils, steam sediments and power pulps Copper ores, Lead ores, Zinc ores, Nickel ores and Other ores Other minerals	6
Carbon / Sulfur Analyzer ELEMENTRAC CS□i Leco Furnace and Infrared Spectroscopy	Total Carbon C-IR07 measured by IR Detection System (LECO Analyser)	Total Carbon C-IR07 (LECO) – Ores and High Grade Materials. Working Range 0.01 – 50%	Ores and Minerals Geochemical samples for trace elements Analysis of samples from the mining exploration industry including rocks, drill core soils, steam sediments and power pulps Copper ores, Lead ores, Zinc ores, Nickel ores and Other ores Other minerals	7



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X-ray fluorescence (XRF)	In -House method: WEI-GRA13b). Analysis for major oxides using WD-XRF method	ME-XRF13 n/u:	Ores and Minerals Geochemical samples for trace elements	8
	ME-XRF13 u/n	Al ₂ O ₃ (0.01/100), BaO (0.01/10),CaO(0.01/40), Cr ₂ O ₃ (0.01/10),Fe ₂ O ₃ (0.01/100),K ₂ O(0.001/6.3), MgO (0.01/40),MnO(0.01/31), Na ₂ O (0.01/5.3),P ₂ O ₅ (0.01/23), SO ₃ (0.01/12.5),SiO ₂ (0.05/100), SrO (0.01/1.5),TiO ₂ (0.01/30),V ₂ O ₅ (0.01/8), Zn (0.01/1.6),ZrO ₂ (0.01/1.5), Total (0.01/110).	Analysis of samples from the mining exploration industry (Bauxite ores)including rocks, drill core soils, steam sediments and power pulps and Other ores	
X-ray fluorescence (XRF)	In -House method: WEI-GRA13b). Analysis for major oxides using WD-XRF method ME-XRF24	ME-XRF24: Al ₂ O ₃ (0.01/100),CaO (0.01/60),Fe ₂ O ₃ (0.01/100),K ₂ O (0.01/10%), MgO(0.01/50),MnO (0.01/31), Na ₂ O(0.01/11),P ₂ O ₅ (0.01/50), SiO ₂ (0.01/100),TiO ₂ (0.01/30), Total (0.01/110)	Ores and Minerals Geochemical samples for trace elements Analysis of samples from the mining exploration industry (Phosphate)including rocks, drill core soils, steam sediments and power pulps and Other ores	9
X-ray fluorescence (XRF)	In -House method: WEI-GRA12b). Analysis for major oxides using WD-XRF method ME-XRF26	ME-XRF26: Al ₂ O ₃ (0.01/100), BaO (0.01/66),CaO(0.01/60), Cr ₂ O ₃ (0.01/10),Fe ₂ O ₃ (0.01/100), K ₂ O(0.01/15), MgO(0.01/50), MnO (0.01/39),Na ₂ O(0.01/10), P ₂ O ₅ (0.01/46),SO ₃ (0.01/34), SiO ₂ (0.01/100), SrO(0.01/1.5), TiO ₂ (0.01/30), Total(0.01/110)	Ores and Minerals Geochemical samples for trace elements Analysis of samples from the mining exploration industry including rocks, drill core soils, steam sediments and power pulps Copper ores, Lead ores, Zinc ores, Nickel ores and Other ores Other minerals	10



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Muffle Furnace	In -House method: OA-GRA05x . Loss on Ignition at 1000 deg C	Loss on Ignition (LOI). (low reporting limit/upper limit)- units are % LOI (0.01/100)	Ores and Minerals Geochemical samples for trace elements Analysis of samples from the mining exploration industry (Phosphate)including rocks, drill core soils, steam sediments and power pulps and Other ores	11
Thermogravimetric analyser LECO- TGA	In -House method: ME-GRA05 . Loss on Ignition at 1000 deg C	Loss on Ignition (LOI). (low reporting limit/upper limit)-units are % LOI (0.01/100)	Ores and Minerals Geochemical samples for trace elements Analysis of samples from the mining exploration industry (Phosphate)including rocks, drill core soils, steam sediments and power pulps and Other ores	12
Muffle Furnace X-Ray Fluorescence Spectroscopy (XRF)	In -House method: WEI-GRA06). Analysis for major oxides using WD-XRF method ME- XRF06 In -House method:OA-GRA06 . Loss on Ignition at 1000 deg C	ME-XRF06: Al ₂ O ₃ (0.01/100), BaO(0.01/100),CaO(0.01/100), Cr ₂ O ₃ (0.01/100),Fe ₂ O ₃ (0.01/100), K ₂ O(0.01/100), MgO (0.01/100), MnO(0.01/100),Na ₂ O (0.01/100), P ₂ O ₅ (0.001/100),SO ₃ (0.01/100), SiO ₂ (0.01/100), SrO(0.01/100), TiO ₂ (0.01/100),LOI (0.01/100),Total (0.01/102)	Ores and Minerals Geochemical samples for trace elements Analysis of samples from the mining exploration industry including rocks, drill core soils, steam sediments and power pulps Copper ores, Lead ores, Zinc ores, Nickel ores and Other ores Other minerals	13



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