



INTERNATIONAL  
ACCREDITATION  
SERVICE®

# CERTIFICATE OF ACCREDITATION

*This is to attest*

## **GLOBAL ALLIANCE LABORATORIES (GA LABS)**

AL-ANDALUS STREET AL-HAMRA DISTRICT  
JEDDAH, 23212, SAUDI ARABIA

**Testing Laboratory TL-1431**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date April 15, 2026



*International Accreditation Service*  
Issued under the authority of IAS management

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## GLOBAL ALLIANCE LABORATORIES (GA LABS)

[www.globalalliancelab.com](http://www.globalalliancelab.com)

**Contact Name** Asif Khan

**Contact Phone** +966-549712976

*Accredited to ISO/IEC 17025:2017*

*Effective Date April 15, 2026*

<b>Chemical – Water, Soil and Sediment Analysis</b>	
APHA 2110	Appearance
APHA 2120 C	Color, True and Apparent (Platinum-Cobalt Standard Method)
APHA 2130 B	Turbidity (Nephelometric Method)
APHA 2150 B	Determination of Odor
APHA 2160 B	Determination of Taste
APHA 2320 B	Standard methods for the examination of water and wastewater, 22nd edition, Determination of T-alkalinity, P-alkalinity; carbonate, bicarbonate & hydroxide
APHA 2340 B	Total Hardness (Hardness by Calculation)
APHA 2340 C	Total Hardness (EDTA Titration)
APHA 2510 B	Conductivity (Laboratory Method)
APHA 2520 B	Salinity (Electrical Conductivity Method)
APHA 2540 B	Total solids Dried at 103-105°C
APHA 2540 C	Total Dissolved Solids Dried at 180°C
APHA 2540 D	Total Suspended Solids Dried at 103-105°C / MLSS
APHA 2550	Temperature (Laboratory and Field Methods)
APHA 3500 Cr B	Hexavalent Chromium
APHA 3500-Ca B	Calcium Hardness (EDTA Titrimetric Method)
APHA 3500-Mg B	Magnesium Hardness (Calculation Method)
APHA 4500 Cl B & C	Chloride
APHA 4500 CN–B, C, & E	Cyanide, Colorimetric Method
APHA 4500 CO2 C.	Titrimetric Method for Free Carbon Dioxide
APHA 4500 H+ B	pH (Electrometric Method)

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APHA 4500 NH3 – F	Ammonia (Salicylate Method)
APHA 4500 NH3 B & C	Nitrogen (Ammonia) Preliminary Distillation and Titrimetric method
APHA 4500 NO3 – B & E	Nitrate NO3- (Colorimetric Method)
APHA 4500 Norg	Nitrogen (Organic) Macro-Kjeldahl Method
APHA 4500-Br	Bromine
APHA 4500-CL G	Determination of Total Residual Chlorine
APHA 4500-CL G	Determination of Free Residual Chlorine
APHA 4500-CI G	Free Chlorine (DPD Colorimetric Method)
APHA 4500-CI G	Total Chlorine (DPD Colorimetric Method)
APHA 4500-CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation
APHA 4500-F D	Fluoride F- (US EPA SPADNS Method)
APHA 4500-NO2- B	Nitrite NO2- (Colorimetric Method)
APHA 4500-O H & G	Dissolved Oxygen (Membrane Electrode Method)
APHA 4500-P E	Phosphate PO43- , Reactive, Orthophosphate (Ascorbic Acid Method)
APHA 4500-S2 D	Sulfide S2- (Methylene Blue Method)
APHA 4500-S2 F	Sulfide S2- Iodometric Method
APHA 4500-SO4 D	Sulfate SO4 <sup>2-</sup> (Gravimetric Method)
APHA 4500-SO4 E	Sulfate SO4 <sup>2-</sup> (Turbidimetric Method)
APHA 5210 B	Biochemical Oxygen Demand BOD (5-Day BOD Test)
APHA 5220 D	Chemical Oxygen Demand COD (Closed Reflux, Colorimetric Method)
APHA 5310 C	TOC
APHA 5520 B	Oil & Grease (Partition-Gravimetric Method)
APHA 5520 F	Petroleum Hydrocarbons
APHA 5530 C	Total Phenols Chloroform Extraction Method
APHA 5540-C	Fluorescent Petroleum Matters as M.B.A.S./ Surfactants/ Anionic Detergents
APHA 10200 H	Chlorophyll-a
US EPA 3015 A	Microwave Assisted Acid Digestion of Aqueous Samples and Extracts
US EPA 3051 A	Microwave Assisted Acid Digestion of Sediments, Sludges, and Oils

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US EPA 6010 D	<p>Determination of Metals and Trace Elements by Inductively Coupled Plasma-Optical Emission Spectrometry:</p> <ol style="list-style-type: none"> <li>1. Calcium (Ca)</li> <li>2. Magnesium (Mg)</li> <li>3. Sodium (Na)</li> <li>4. Potassium (K)</li> <li>5. Aluminum (Al)</li> <li>6. Antimony (Sb)</li> <li>7. Arsenic (As)</li> <li>8. Barium (Ba)</li> <li>9. Beryllium (Be)</li> <li>10. Bismuth (Bi)</li> <li>11. Boron (B)</li> <li>12. Cadmium (Cd)</li> <li>13. Chromium (Cr)</li> <li>14. Cobalt (Co)</li> <li>15. Copper (Cu)</li> <li>16. Iron (Fe)</li> <li>17. Lead (Pb)</li> <li>18. Lithium (Li)</li> <li>19. Manganese (Mn)</li> <li>20. Mercury (Hg)</li> <li>21. Molybdenum (Mo)</li> <li>22. Nickel (Ni)</li> <li>23. Phosphorus (P)</li> <li>24. Selenium (Se)</li> <li>25. Silicon (SiO<sub>2</sub>)</li> <li>26. Silver (Ag)</li> <li>27. Strontium (Sr)</li> <li>28. Sulfur (S)</li> <li>29. Tin (Sn)</li> <li>30. Titanium (Ti)</li> <li>31. Vanadium (V)</li> <li>32. Zinc (Zn)</li> <li>33. Thallium</li> </ol>
<b>Concrete Analysis</b>	
BS 1881-124:2015	<p>Cement content Aggregate content Chloride content Sulfate content</p>
<b>Soil Analysis</b>	
BS 1377-3:2018+A1:2021	<p>Organic Matter pH</p>

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	<p>Conductivity                  Loss on ignition                  Acid soluble sulphate                  Water soluble sulphate                  Carbonate content                  Water soluble chloride                  Acid soluble chloride                  Total Dissolved Solids</p>
<b>VOC by GC-MS Test Methods</b>	
Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	
EPA 8260 D	<p>Dichlorodifluoromethane                  Chloromethane (methyl chloride)                  Vinyl chloride                  Bromomethane (methyl bromide)                  Chloroethane (ethyl chloride)                  Trichlorofluoromethane                  Diethyl ether (ethyl ether)                  1,1-Dichloroethene (Vinylidene chloride)                  1,1,2-Trichlorotrifluoroethane                  Acetone                  Acrolein                  Iodomethane (methyl iodide)                  Cyclohexanone                  Carbon disulfide                  Acetonitrile                  Allyl chloride (3-chloropropene)                  Methylene chloride (dichloromethane)                  tert-Butanol (TBA)                  Methyl-tert-butyl ether (MTBE )                  Acrylonitrile                  trans-1,2-Dichloroethene                  1,1-Dichloroethane                  Diisopropyl ether (DIPE )                  Chloroprene (2-chloro-1,3-butadiene)                  Ethyl-tert-butyl ether (ETBE)                  cis-1,2-Dichloroethene                  2-Butanone (MEK)                  2,2-Dichloropropane                  Methyl acrylate                  Propionitrile (Ethyl cyanide)</p>



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	Methacrylonitrile
	Bromochloromethane
	Tetrahydrofuran
	Isobutyl alcohol (2-methyl-1-propanol)
	Chloroform (Trichloromethane)
	1,1,1-Trichloroethane
	Carbon tetrachloride
	1,1-Dichloropropene
	2-Chloroethanol
	Benzene
	1,2-Dichloroethane
	tert-Amyl methyl ether (TAME)
	Trichloroethene
	1,2-Dichloropropane
	Methyl methacrylate
	1,4-Dioxane
	Dibromomethane
	Bromodichloromethane
	2-Nitropropane
	cis-1,3-Dichloropropene
	4-Methyl-2-pentanone (MIBK)
	Toluene
	trans-1,3-Dichloropropene
	Ethyl methacrylate
	1,1,2-Trichloroethane
	Tetrachloroethene
	1,3-Dichloropropane
	2-Hexanone
	Dibromochloromethane
	1,2-Dibromoethane (EDB)
	Chlorobenzene
	1,1,1,2-Tetrachloroethane
	Ethylbenzene
	m-Xylene & p-Xylene
	o-Xylene
	Styrene
	Bromoform
	Isopropylbenzene (cumene)
	cis-1,4-Dichloro-2-butene

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	Bromobenzene 1,1,2,2-Tetrachloroethane 1,2,3-Trichloropropane trans-1,4-Dichloro-2-butene n-Propylbenzene 2-Chlorotoluene 4-Chlorotoluene 1,3,5-Trimethylbenzene tert-Butylbenzene Pentachloroethane 1,2,4-Trimethylbenzene sec-Butylbenzene 1,3-Dichlorobenzene 4-Isopropyltoluene (p-Cymene) 1,4-Dichlorobenzene 1,2-Dichlorobenzene n-Butylbenzene 1,2-Dibromo-3-chloropropane (DBCP) Nitrobenzene 1,2,4-Trichlorobenzene Hexachloro-1,3-butadiene Naphthalene 1,2,3-Trichlorobenzene Ethyl methacrylate
<b>SVOC by GC-MS Test Methods</b>	
SVOC-EPA 8270 D, E	Pyridine Benzoic acid Benzidine Methyl methanesulfonate Ethyl methanesulfonate Benzaldehyde Aniline Phenol Pentachloroethane Bis(2-chloroethyl) ether 2-Chlorophenol 1-Chlorocatadecane 1,3-dichloro-benzene

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	<p>1,4-dichloro-benzene Benzyl alcohol 1,2-dichloro-benzene 2-Methylphenol (o-cresol) Bis(2-chloro-1-methylethyl) ether Acetophenone N-Nitroso-di-n-propylamine 3-Methylphenol (m-cresol),4-Methylphenol (p-cresol) Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Bis(2-chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline 2,6-Dichlorophenol Hexachloropropene Hexachlorobutadiene epsilon-Caprolactam 4-Chloro-3-methylphenol 2-Methylnaphthalene 1-Methylnaphthalene 1,2,4,5-Tetrachlorobenzene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol- Safrole Biphenyl 2-Chloronaphthalene 1-Chloronaphthalene Diphenyl ether 2-Nitroaniline 1,4-Naphthoquinone 1,4-Dinitrobenzene Dimethylphthalate 1,3-Dinitrobenzene</p>
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	2,6-Dinitrotoluene
	1,2-Dinitrobenzene
	Acenaphthylene
	3-Nitroaniline
	Acenaphthene
	2,4-Dinitrophenol
	4-Nitrophenol
	Pentachlorobenzene
	Dibenzofuran
	2,4-Dinitrotoluene
	2,3,4,6-Tetrachlorophenol
	2,3,5,6-Tetrachlorophenol
	Diethylphthalate
	Fluorene
	4-Chlorophenyl phenyl ether
	4-Nitroaniline
	4,6-Dinitro-2-methylphenol
	Diphenylamine
	Azobenzene
	2,4,6-Tribromophenol (SURRE)
	1,3,5-Trinitrobenzene
	Phenacetin
	4-Bromophenyl phenyl ether
	Hexachlorobenzene
	Atrazine
	Pentachlorophenol
	Pentachloronitrobenzene (quintozene)
	Propylamide
	Phenanthrene
	Anthracene
	Carbazole
	Di-n-butylphthalate
	4-Nitroquinoline-N-oxide
	Isodrin
	Fluoranthene
	Pyrene-
	Chlorobenzilate
	Kepone
	Benzyl butyl phthalate

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	<p>Bis(2-ethylhexyl) adipate  Benz(a)anthracene  Chrysene  Bis(2-ethylhexyl) phthalate  Di-n-octyl phthalate  7,12-Dimethylbenz(a)anthracene  Benzo(b)fluoranthene  Benzo(k)fluoranthene  Benzo(a)pyrene  3-Methylcholanthrene  Dibenz(a,j)acridine  Indeno(1,2,3-cd) pyrene  Dibenz(a,h)anthracene  Benzo(g,h,i)perylene  Isosafrole(cis &amp; trans)  Diallate(cis &amp; trans)  Aramite-I-IV</p>
<b>PCB by GC-MS Test Methods</b>	
EPA 8081 B	2,4,5,6-Tetrachloro-m-xylene Toxaphene
EPA 8151 A	2,4,5-TP (Silvex)
EPA 8260	1,4-Dioxane Epichlorohydrin
PAH - EPA 8270	<p>Naphthalene  Acenaphthylene  Acenaphthene  Fluorene  Phenanthrene  Anthracene  Fluoranthene  Pyrene-  Benz(a)anthracene  Chrysene  Benzo(b)fluoranthene  Benzo(k)fluoranthene  Benzo(a)pyrene  Indeno(1,2,3-cd) pyrene  Dibenz(a,h)anthracene</p>



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	Benzo(g,h,i)perylene
PCB - EPA 8082 A	2-Chlorobiphenyl (BZ#1) 2,3-Dichlorobiphenyl (BZ#5) 2,2',5-Trichlorobiphenyl (BZ#18) 2,4',5-Trichlorobiphenyl (BZ#31) 2,2',5,5'-Tetrachlorobiphenyl (BZ#52) 2,2',3,5'-Tetrachlorobiphenyl (BZ#44) 2,3',4,4'-Tetrachlorobiphenyl (BZ#66) 2,2',4,5,5'-Pentachlorobiphenyl (BZ#101) 2,2',3,4,5'-Pentachlorobiphenyl (BZ#87) 2,3,3',4'.6-Pentachlorobiphenyl (BZ#110) 2,2',3,5,5',6-Hexachlorobiphenyl (BZ# 151) 2,2',4,4',5,5'-Hexachlorobiphenyl (BZ#153) 2,2',3,4,5,5'-Hexachlorobiphenyl (BZ#141) 2,2',3,4,4',5'-Hexachlorobiphenyl (BZ#138) 2,2',3,4',5,5',6-Heptachlorobiphenyl (BZ#187) 2,2',3,4,4',5',6-Heptachlorobiphenyl (BZ#183) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ#180) 2,2',3,3',4,4',5-Heptachlorobiphenyl (BZ#170) 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (BZ#206)
Pesticide - EPA 8270 E	Dichlorvos (DDVP) EPTC Mevinphos Butylate Vernolate Etridiazole Pebulate Tebuthiuron Molinate Propachlor Ethoprophos Cycloate Naled (300-7) Chlorpropham Trifluralin Sulfotepp Monocrotophos



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	Phorate alpha-BHC Dimethoate Atraton Prometon Simazine Atrazine beta-BHC Propazine gamma-BHC (Lindane) Propyzamide Diazinon Terbacil Disulfoton delta-BHC Metribuzin Methyl parathion Alachlor Simetryn Ametryn Heptachlor Prometryne Fenchlorphos (Ronnel) Terbutryn Bromacil Malathion Metolachlor Chlorpyrifos Cyanazine (Bladex) Fenthion Aldrin Parathion (ethyl parathion) Triadimefon Trichloronate Diphenamid Heptachlor epoxide (isomer B) Merphos trans-Chlordane Tetrachlorvinphos
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	<p>Butachlor  cis-Chlordane  Endosulfan -alpha  Napropamide (Devrinol)  Prothiofos  Tricyclazole (Beam)  4,4'-DDE  Dieldrin  Endrin  Fensulfothion  Endosulfan beta  4,4'-DDD  Endrin aldehyde  Sulprofos  Norflurazon  Endosulfan sulfate  4,4'-DDT  Hexazinone (Velpar)  Endrin ketone  EPN  Methoxychlor  Azinphos methyl  Fenarimol  Coumaphos  Fluridone (Sonar)  Demeton, O &amp; S  MGK-264 (113-48-4) I-II  Mirex</p>
TPH - EPA 8015 D	<p>Gasoline Range Organics (GRO)(C5-C10)  Diesel Range Organics (DRO&gt;(&gt;C10-C28)  Heavy Fraction(&gt;C28-C40)  C10- C16  &gt;C16 – C34  &gt;C34- C40</p>
<b>Microbiological – Water and Sediment</b>	
APHA 9213 B & D	Staphylococcus Aureus
APHA 9215 B, C, & D	Total Bacteria Count

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APHA 9222 B / ISO 9308	Total Coliform
APHA 9222 D	Fecal Coliform
APHA 9230	Fecal Streptococci & Enterococci
APHA 9260 J	Legionella
APHA 9610 B, C, & D	Yeast & Mould
APHA 10200 F	Phytoplankton
APHA 10200 G	Zooplankton
APHA 10500	Infauna
APHA 10750	Nematodes
APHA 10900	Algae
BART Test HACH	Sulfate Reducing Bacteria (SRB)
IS 15187 / ISO 19250	Salmonella
ISO 15213 / ISO 14189	Clostridium Perfringens
ISO 16266	Pseudomonas Aeruginosa
ISO 9308	E. Coli
WRC TT 322/08	Eggs of Intestinal Worm Test
<b>Microbiological - Environmental</b>	
ISO 14698	Bacteria, Fungi

