



ISO/IEC 17025:2017

מעבדות בדיקה

תעודת הסמכה מס' 114
המחלקה לכימיה ימית - חקר ימים ואגמים לישראל
כתובת אתר ייחוס: תל שקמונה, חיפה, 31080

עד יום: 28.02.2022

בתוקף מיום: 01.03.2020

הארגון נבדק ונבחן על ידי הרשות הלאומית להסמכת מעבדות (להלן הרשות) ונמצא ראוי להסמכה בהתאם לנספח פירוט היקף ההסמכה המצורף לתעודה זו, המהווה חלק בלתי נפרד ממנה ומספרו זהה למספר התעודה. הסמכה מצביעה על כשירות מקצועית ותפעול מערכת ניהול איכות בעלת הכרה בינלאומית. הארגון המוסמך על ידי הרשות, עומד בתקנים/ בדרישות המפורטים למעלה. דרישות התקנים הם לכשירות מקצועית ולמערכות ניהול, שהינן הכרחיות למתן תוצאות אמינות. הסמכה זו ניתנה בהתאם לכללי ISO/IEC 17011:2017 לפיהם פועלת הרשות ובמסגרתם מקיימת פיקוח שוטף על הארגון לצורך בחינת תפקודו המתמשך בהתאם לדרישות ההסמכה. ההסמכה תקפה כל עוד הארגון עונה לאמות המידה שנקבעו על ידי הרשות. תעודה זו אינה מהווה אישור לפי סעיף 12 לחוק התקנים.

אתי פלר
מנכ"ל
הרשות הלאומית להסמכת מעבדות

תאריך הסמכה ראשון: 01.03.2004



הרשות הלאומית להסמכת מעבדות
Israel Laboratory Accreditation Authority

Testing Laboratories

ISO/IEC 17025:2017

Accreditation Certificate No. 114

**Marine Chemistry Department - Israel Oceanographic
Limnological Research**

Main site address: Tel Shikmona, Haifa ,31080, Israel

Valid from: 01.03.2020

Until: 28.02.2022

The organization was assessed by the Israel Laboratory Accreditation Authority (ISRAC) and found to be worthy of accreditation to the detailed schedule attached.

The schedule is an integral part of this certificate and is numbered with the above certificate number.

Accreditation demonstrates technical competence and operation of an internationally recognized quality management system.

The organization accredited by ISRAC complies with the standards/requirements mentioned above, meets the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically competent results. This accreditation is granted in accordance with the requirements of ISO/IEC 17011:2017, and entails periodic surveillance and reassessment by ISRAC to ensure that the organization continues to comply with the accreditation requirements.

The accreditation is valid provided that the organization continues to meet the criteria as laid down by ISRAC.

This certificate does not constitute an approval in accordance with article 12 of the standard law.

Date of first accreditation: 01.03.2004

**Etty Feller
General Manager
Israel Laboratory Accreditation Authority**

Date of signature 22/04/2020

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Name and Address:

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Site: P or T or M , P-Permanent, T-Temporary, M-Mobile

A permanent (P) or temporary (T) place, or a stationary or mobile (M) facility, at or from which the organization performs activities forming part of its scope of accreditation, starting from sampling to final issuance of a report or certificate and / or quality system activities. A temporary (T) site is a site established under the responsibility of an accredited permanent site. All activities performed at a temporary site are the responsibility of the permanent site. An outdoors work is also considered to be a temporary site. Temporary site will be a site that involves work for special project and the activity will be defined in time (up to 2 years).

Type of Scopes: A- Fixed, C- Flexible scope in analytical tests : Type of matrix, analytes, experimental systems and/or analytical characteristics may be subject to changes, in accordance with the laboratory's approved and documented procedures. For details, please refer to the list of Accredited Tests, available from the laboratory upon request.



Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Environment- Various Types of Water - Water Organisms				משפחת מוצרים: איכות הסביבה-מים לסוגיהם- יצורי מים			
Chemical Testing, Spectroscopy, UV/ Visible, Atomic Absorption				בדיקות כימיות, ספקטרוסקופיה, תחום נראה/ UV, בליעה אטומית			
1	A	P	Water organisms (fauna and flora living in or near fresh and marine water)	יצורי מים (חי וצומח במים מתוקים, מי ים או בסביבתם) Metals	מתכות In house procedure	---	Based on: NEP/FAO/IAEA/IOC Reports no.7 (1984); no. 8 (1984) ; no. 57 (1990) (1) Microwave Assisted Digestion of Siliceous and Organically Based Matrices, EPA method 3052 (2) Mercury in sediment and tissue samples by atomic fluorescence spectroscopy, EPA method 7474. (3) JAMP Guidelines for monitoring contaminants in biota (2010) UNEP = United nations environmental program IAEA = International Atomic Energy Agency FAO = Food and Agriculture Organization of the United Nations IOC = Intergovernmental Oceanographic Commission EPA = Environmental Protection Agency Metals: Al, As, Cd, Cu, Cr, Fe, Hg, Mn, Pb, Zn



Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks		
Group of products :Environment - Soil, Aggregates and Water							משפחת מוצרים: איכות הסביבה - קרקע, אגרגטים ומים		
Chemical Testing, Spectroscopy, UV/ Visible, Atomic Absorption							בדיקות כימיות, ספקטרוסקופיה, תחום נראה / UV, בליעה אטומית		
2	A	P	Drinking water	מי שתייה	Nutrients	חומרים מזינים	In house procedure	---	Based on: (1) JGOFS core measurements. IOC/SCOR manual and guides 29, Unesco 1994 (2) Hood, E.M., C.L. Sabine, and B.M. Sloyan, eds. 2010. The GO-SHIP Repeat Hydrography Manual: A Collection of Expert Reports and Guidelines. IOCCP Report Number 14, ICPO Publication Series Number 134. IOC/SCOR=Scientific Committee on Oceanic Research JGOFS = Joint Global Ocean Flux Study IOCCP = International Ocean Carbon Coordination Project Nutrients: NO ₃ +NO ₂ , NO ₂ , PO ₄ , Si(OH) ₄
3	A	P	Sea and river water	מי נהר וים	Nutrients	חומרים מזינים	In house procedure	---	Based on: (1) JGOFS core measurements. IOC/SCOR manual and guides 29, Unesco 1994 (2) Hood, E.M., C.L. Sabine, and B.M. Sloyan, eds. 2010. The GO-SHIP Repeat Hydrography Manual: A Collection of Expert Reports and Guidelines. IOCCP Report Number 14, ICPO Publication Series Number 134. Nutrients: NO ₃ +NO ₂ , NO ₂ , PO ₄ , Si(OH) ₄
4	A	P	Brine	תמלחת	Nutrients	חומרים מזינים	In house procedure	---	Based on: (1) JGOFS core measurements. IOC/SCOR manual and guides 29, Unesco 1994 (2) Hood, E.M., C.L. Sabine, and B.M. Sloyan, eds. 2010. The GO-SHIP Repeat Hydrography Manual: A Collection of Expert Reports and Guidelines. IOCCP Report Number 14, ICPO Publication Series Number 134. Nutrients: NO ₃ +NO ₂ , NO ₂ , PO ₄ , Si(OH) ₄



Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products :Environment - Soil, Aggregates and Water					משפחת מוצרים: איכות הסביבה - קרקע, אגרגטים ומים		
Chemical Testing, Spectroscopy, UV/ Visible, Atomic Absorption					בדיקות כימיות, ספקטרוסקופיה, תחום נראה / UV, בליעה אטומית		
5	A	P	Sediment	משקעי קרקעית Metals	מתכות In house procedure	---	Based on: (1) UNEP/IOC/IAEA. Manual for the geochemical analyses of marine sediments and suspended particulate matter. Reference Methods for Marine Pollution studies no. 63, UNEP 1995. (2) Microwave Assisted Digestion of Siliceous and Organically Based Matrices. EPA Method 3052. (3) Mercury in sediment and tissue samples by atomic fluorescence spectroscopy. EPA Method 7474. Metals: Al, As, Cd, Cu, Cr, Fe, Hg, Mn, Ni, Pb, Zn