



ISO/IEC 17025:2017
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הרשות הלאומית להסמכת מעבדות
Israel Laboratory Accreditation Authority

מעבדות בדיקה
מעבדות כיוול

תעודת הסמכה מס' 152 מעבדות מחלקת בטיחות קרינה - ממ"ג שורק

כתובת אתר ייחוס: יבנה, 81800

עד יום: 29.07.2025

בתוקף מיום: 25.06.2023

הארגון נבדק ונבחן על ידי הרשות הלאומית להסמכת מעבדות (לחץ 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 מעלה. דרישות התקנים הם לכשירות מקצועית ולמערכות ניהול, שהינן הכרחיות למתן תוצאות אמיתות. 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 המיושמות שנקבעו על ידי הרשות.

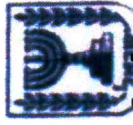
הרשות חתומה על הסכם הכרה רב צדדי (MLA) מול ארגון European Accreditation Cooperation (EA).

תעודה זו אינה מהווה אישור לפי סעיף 12 לחוק התקנים.

אתי פלר
מנכ"ל

הרשות הלאומית להסמכת מעבדות

תאריך הסמכה ראשון: 30.07.2006



הרשות הלאומית להסמכת מעבדות
Israel Laboratory Accreditation Authority

Testing Laboratories
Calibration Laboratory

ISO/IEC 17025:2017
ISO/IEC 17025:2017

Accreditation Certificate No. 152 NRC SOREQ – Laboratories of Radiation Safety department

Main site address: Yavne, 81800, Israel

Valid from: 25.06.2023

Until: 29.07.2025

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. ISRAC is an EA-MLA (European Accreditation Cooperation Multi-Lateral Agreement) signatory.

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

Date of first accreditation: 30.07.2006

Etty Feller

General Manager

Israel Laboratory Accreditation Authority

Date of signature 25/06/2023

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Department: Testing Laboratory ISO/IEC 17025:2017 Accreditation No. 152
 Calibration Laboratory ISO/IEC 17025:2017

Name and Address:

Laboratory name SOREQ NRC - Radiation Safety Division
Address Personal Dosimetry Laboratory
 Yavne, 81800, Israel
Phone +972-8-943-4511
Fax +972-8-943-4696
E-Mail tag@soreq.gov.il

This appendix includes 6 parts, one for each accredited organization in the list below:

1.	Personal Dosimetry Laboratory	Phone No. +972-8-943-4511
2.	Radioactivity in water Laboratory	Phone No. +972-8-943-4554
3.	Radiotoxicologic Laboratory	Phone No. +972-8-943-4242
4.	Gamma Spectrometry Laboratory	Phone No. +972-8-943-4550
5.	ILL09 Radionuclide Laboratory	Phone No. + 972-8-943-4550
6.	SSDL (Secondary Standards Dosimetry Laboratory)	Phone No. + 972-8-943-4364

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.



Organization name SOREQ NRC - Radiation Safety Division
Laboratory name Personal Dosimetry Laboratory
Address Yavne, 81800, Israel
Phone +972-8-943-4511
Fax +972-8-943-4696
E-Mail tag@soreq.gov.il

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Health - Physical Tests							
Medical - Personal Dosimetry, Measuring of Ionizing Radiation Doses							
1	A	T	Personal Dosimeter דוֹזִימֶטֶר אִישׁ	Personnel Radiation dose measurements (β , γ , x radiation and thermal neutrons) מדידת חשיפת אדם לקרינה מייננת (קרנית β , γ , x וניטרונים תרמיים)	In house procedure	---	Based on: IAEA Safety Guide RS-G-1.3 Thermo Fischer Scientific Harshaw 8800, Thermo Fischer Scientific Harshaw 8800 Plus
2	A	T	Personal Dosimeter דוֹזִימֶטֶר אִישׁ	Personnel Radiation dose measurements (fast neutrons radiation by SSTND) מדידת חשיפת אדם לקרינה מייננת (קרנית ניטרונים מהירים בשיטת SSTND)	In house procedure	---	Based on: IAEA Safety Guide RS-G-1.3 Landauer CR-39 SSTND dosimetry SSTND = Solid State Nuclear Track Detectors



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Israel Laboratory Accreditation Authority

Department: Testing Laboratory ISO/IEC 17025:2017 Accreditation No. 152

Organization name NRC SOREQ - Radiation Safety Division
 Laboratory name Radiotoxicology Laboratory
 Address Yavne, 81800, Israel
 Phone +972-8-943-4242
 Fax +972-8-943-4696
 E-Mail radsafe@soreq.gov.il

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							
Chemical Testing, Counting and Spectrometry, Radioactivity							
3	A	P	Drinking water	Measurement of β emitters by evaporation	מדידת ריכוז פלטי β באדימי	---	Eurysis Mesures IN20 Mirion Technologies LB4200
4	A	P	Drinking water	Measurement of α emitters by precipitation	מדידת ריכוז פלטי α בשיקוע	---	Eurysis Mesures IN20 Mirion Technologies LB4200
5	A	P	Drinking water	Measurement of Radioisotopes γ emitters	מדידת רדיואיזוטופים פלטי γ	---	HPGe Detectors: 50/60/80 Mirion Technologies/Ortec/ Canberra
6	A	P	Drinking water	Measurement of Radium Radioisotopes	מדידת רדיואיזוטופים של ראדיום	In house procedure	Based on: Moore W. S., Radium Isotope Measurements using Germanium Detectors. Nuclear Instruments and Methods in Physics Research 223 (1984) 407-411, North-Holland, Amsterdam Moon D. S., et al Preconcentration of radium isotopes from natural waters using MnO ₂ Resin. Applied Radiation and Isotopes (2003), Vol 59 Issue 4, 255-262. HPGe Detectors: 35/50/60 Mirion Technologies/Ortec/ Canberra



Department: Testing Laboratory ISO/IEC 17025:2017 Accreditation No. 152

Organization name **SOREQ NRC - Radiation Safety Division**
 Laboratory name Radiotoxicology Laboratory
 Address Yavne, 81800, Israel
 Phone +972-8-943-4242
 Fax +972-8-943-4696
 E-Mail itox@soreq.gov.il

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products : Health, Medicine							
Chemical Testing, Counting and Spectrometry, Radiotoxicology							
7	A	P	Urine	שנתן Measurements of γ emitters	מניית רדיונוקלידים פולטי γ In house procedure	---	Based on: IAEA Safety Guide RS-G-1.2 HPGe Detectors: 30/50/60/80/mobile Mirion Technologies/Ortec/ Canberra
8	A	P	Urine	שנתן Measurements of β emitters	מניית רדיונוקלידים פולטי β In house procedure	---	Based on: IAEA Safety Guide RS-G-1.2 PerkinElmer Tri-Carb 1600 TR PerkinElmer Tri-Carb 4.910 TR



הרשות הלאומית להסמכת מעבדות
Israel Laboratory Accreditation Authority

Department: Testing Laboratory ISO/IEC 17025:2017

Accreditation No. 152

Organization name **SOREQ NRC - Radiation Safety Division**
 Laboratory name **Gamma Spectrometry Laboratory**
 Address Yavne, 81800, Israel
 Phone +972-8-943-4550
 Fax +972-8-943-4696
 E-Mail radsafe@soreq.gov.il

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							
Chemical Testing, Counting and Spectrometry							
9	A	P	Soil קרקע	Measurements of γ emitters מניית רדיונוקלידים פולטי γ	In house procedure	---	Based on ANSI N 42.14 HPGe Detectors: 30/50/60/80/mobile Mirion Technologies/Ortec/ Canberra

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Environment- Air							
Chemical Testing, Counting and Spectrometry							
10	A	P	Air אוויר	Measurements of γ emitters מניית רדיונוקלידים פולטי γ	In house procedure	---	Based on: ANSI N 42.14 HPGe Detectors: 30/50/60/80/mobile Mirion Technologies/Ortec/ Canberra

Date of signature 25/06/2023

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Organization name SOREQ NRC - Radiation Safety Division
Laboratory name ILL09 Radionuclide Laboratory
Address Yavne, 81800, Israel
Phone +972-8-943-4994
Fax +972-8-943-4696
E-Mail il109@ndc.soreq-ndc.gov.il

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Environment-Air							
Chemical Testing, Counting and Spectrometry							
11	A	P	Air	אנזיך Measurements of γ emitters מניית רדיונוקלידים פליטי γ	In house procedure	---	According to : CTBT/PTS/INF.96 Ortec detector HPGe 70
<p>מטפחה מוצרים: איכות הסביבה - אוויר</p> <p>בדיקות כימיות, מנייה וספקטרוטוריה</p>							



Organization name SOREQ NRC - Radiation Safety Division
Laboratory name Secondary Standards Dosimetry Laboratory
Address Yavne, 81800, Israel
Phone +972-8-9434364
Fax +972-8-943-4696
E-Mail radsafe@soreq.gov.il

Item	Scope Type	Site	Measurand Instrument, Gauge	Range [Including margins] (Does not include margins)	Uncertainty of Measurement ¹	Reference Documents	Remarks
Calibration – Physical Quantities – Ionizing Radiation, Radiation Sources							
12	A	P;T	Exposure dose rate of γ radiation fields from irradiation facilities	Cs-137 k_a [0.4 μ Gy/h to 534 mGy/h]	5 %	IAEA - Safety Reports Series No. 16 : calibration of radiation protection monitoring instruments NCRP Report No. 112, Calibration of Survey Instruments Used in Radiation Protection for the Assessment of Ionizing Radiation Fields and Radioactive Surface Contamination	The range is the order of magnitude
13	A	P;T	Exposure dose rate of γ radiation fields from irradiation facilities	Co-60 k_a 685.6 mGy/min	% 5		

¹⁾ The uncertainty covered by the CMC expressed as the standard measurement uncertainty multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95 %.