



ISO/IEC 17025;2017
ISO/IEC 17025;2017

מעבדות בדיקה
מעבדות כיוול

תעודת הסמכה מס' 152 שטח בטיחות קרינה ממ"ג שורק

כתובת אתר ייחוס: יבנה, 81800

עד יום: 29.07.2021

בתוקף מיום: 30.07.2019

הארגון נבדק ונבחן על ידי הרשות הלאומית להסמכת מעבדות (להלן הרש'ות) 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: 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 – Radiation Safety Division**

Main site address: Yavne, 81800, Israel

Valid from: 30.07.2019

Until: 29.07.2021

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.

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

Date of first accreditation: 30.07.2006

Date of signature 14.07.2019

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Department: Testing Laboratory
Calibration Laboratory

ISO/IEC 17025; 2017
ISO/IEC 17025; 2017

Accreditation No. 152

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.



Name and Address:

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					משפחת מוצרים: בריאות - בדיקות פיזיקליות			
Medical - Personal Dosimetry, Measuring of Ionizing Radiation Doses					רפואה - דוזימטריה אישית, מדידת מנות קרינה			
1	A	T	Personal Dosimeter	דוזימטר אישי Personnel Radiation dose measurements (β , γ , x radiation and thermal neutrons)	מדידת חשיפת אדם לקרינה מייננת (קרינת 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	דוזימטר אישי Personnel Radiation dose measurements (fast neutrons radiation by SSTND)	מדידת חשיפת אדם לקרינה מייננת (קרינת ניטרונים מהירים בשיטת SSNTD)	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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Name and Address:

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					משפחת מוצרים: איכות הסביבה - קרקע, אגרגטים ומים		
Chemical Testing, Counting and Spectrometry, Radioactivity					בדיקות כימיות, מנייה וספקטרומטריה, רדיואקטיביות		
3	A	P	Drinking water	מדידת ריכוז פולטי β באידוי	SM 7110B	---	Eurysis Mesures IN20 Mirion Technologies LB4200
4	A	P	Drinking water	מדידת ריכוז פולטי α בשיקוע	SM 7110C	---	Eurysis Mesures IN20 Mirion Technologies LB4200
5	A	P	Drinking water	מדידת רדיואיזוטופים γ פולטי	SM 7120B	---	HPGe Detectors: 35/50/60/80 Mirion Technologies/Ortec/ Canberra

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Name and Address:

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 rtox@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				משפחת מוצרים: איכות הסביבה - קרקע, אגרגטים ומים			
Chemical Testing, Counting and Spectrometry, Radioactivity				בדיקות כימיות, מנייה וספקטרומטריה, רדיואקטיביות			
6	A	P	Drinking water	מי שתייה 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

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Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products : Health, Medicine				משפחת מוצרים : בריאות-רפואה			
Chemical Testing, Counting and Spectrometry, Radiotoxicology				בדיקות כימיות, מנייה וספקטרומטריה, רדיוטוקסיקולוגיה			
7	A	P	Urine	שתן Measurements of γ emitters	מניית רדיונוקלידים פולטי γ	In house procedure	Based on: IAEA Safety Guide RS-G-1.2 HPGe Detectors: 30/35/50/60/80/mobile Mirion Technologies/Ortec/ Canberra
8	A	P	Urine	שתן 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

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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		משפחת מוצרים : איכות הסביבה - קרקע, אגרגטים ומים		
			Chemical Testing, Counting and Spectrometry		בדיקות כימיות, מנייה וספקטרומטריה		
9	A	P	Soil	קרקע Measurements of γ emitters	מניית רדיונוקלידים פולטי γ	In house procedure	Based on ANSIN 42.14 HPGe Detectors: 30/35/50/60/80/mobile Mirion Technologies/Ortec/ Canberra

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Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Environment- Air				משפחת מוצרים: איכות הסביבה - אוויר			
Chemical Testing, Counting and Spectrometry				בדיקות כימיות, מנייה וספקטרומטריה			
10	A	P	Air	אוויר Measurements of γ emitters	מניית רדיונוקלידים פולטי γ	In house procedure	Based on: ANSIN 42.14 HPGe Detectors: 30/35/50/60/80/mobile Mirion Technologies/Ortec/ Canberra

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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 ill09@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				משפחת מוצרים: איכות הסביבה - אוויר			
Chemical Testing, Counting and Spectrometry				בדיקות כימיות, מנייה וספקטרומטריה			
11	A	P	Air	אוויר Measurements of γ emitters	מניית רדיונוקלידים פולטי γ	In house procedure	--- According to : CTBT/PTS/INF.96 Ortec detector HPGe 70

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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)	CMC Expressed as an Expanded Uncertainty (95%)	Reference Documents	Remarks
Calibration – Physical Quantities – Ionizing Radiation, Radiation Sources						כיוול- גדלים פיזיקליים – קרינה מייננת, מקורות קרינה		
12	A	P;T	Exposure\ dose\ dose rate of γ radiation fields from irradiation facilities	חשיפה \ מנת קרינה \ קצב מנת קרינה משדות קרינת γ ממתקני הקרינה	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			Co-60 k _a 685.6 mGy/min	5%		

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