



תעודת הסמכה מס' 105 מעבדות השירותים להגנת הצומח ולביקורת משרד החקלאות ופיתוח הכפר

כתובת אתר ייחוס: הקריה החקלאית, דרך המכבים 30, ראשון לציון

עד יום: 31.03.2022

בתוקף מיום: 30.03.2020

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: 01.04.2004



הרשות הלאומית להסמכת מעבדות
Israel Laboratory Accreditation Authority

Testing Laboratories

ISO/IEC 17025:2017

Accreditation Certificate No. 105

**Plant Protection and Inspection Services Laboratories
Ministry of Agriculture and Rural Development**

Main site address: Agricultural Campus, 30 Hamacabim Road, Rishon Le-Zion, Israel

Valid from: 30.03.2020

Until: 31.03.2022

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: 01.04.2004

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

Date of signature 30/03/2020

Page No. 2 of: 14



Name and Address:

Laboratory name	Plant Protection and Inspection Services Laboratories, Ministry of Agriculture and Rural Development
Address	Agricultural campus, 30 Hamacabim Road Rishon Le-Zion, Israel
Phone	+972-3-968-1561
Fax	+972-3-968-1582
E-Mail	lailas@moag.gov.il

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: Agriculture - Agricultural Products				משפחת מוצרים: חקלאות-מוצרים חקלאים				
Biological Testing, Bacteria, Fungi and Yeast, Classification and Identification				בדיקות ביולוגיות, חיידקים, פטריות ושמרים, מיון וזיהוי				
1	A	P	Plant tissue and Fungal colonies	רקמה צמחית ומושבות פטרייתיות Identification of fungal plant diseases	זיהוי מחלות צמחים פטרייתיות In house procedure	---	Based on: European and Mediterranean Plant Protection Organization - Diagnostic Protocols for Regulated Pests. H.L. Barnett and B.B. Hunter (1987) Illustrated Genera of Imperfect Fungi. Fungi: Acremonium sp., Acrothecium sp., Albugo sp., Alternaria sp., Alternaria alternata, Ascochyta sp., Aspergillus sp., Aspergillus niger, Asteroma sp., Aureobasidium sp., Aureobasidium pullulans, Bipolaris sp., Bipolaris sorokiniana, Bispora sp., Botryosphaeria sp., Botrytis sp., Botrytis cinerea, Bremia sp., Bremia lactucae, Campylocarpon fasciculare, Cercospora sp., Cerotelium sp., Cerotelium fici, Ceratocystis paradoxa Ceuthospora sp., Chaetomella sp., Chalara sp., Chromelosporium sp., Cladosporium sp., Claviceps sp., Coleophoma sp.,	



Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Agriculture - Agricultural Products				משפחת מוצרים: חקלאות- מוצרים חקלאים			
Biological Testing, Bacteria, Fungi and Yeast, Classification and Identification				בדיקות ביולוגיות, חיידקים, פטריות ושמרים, מיון וזיהוי			
	A	P	Plant tissue and Fungal colonies	רקמה צמחית ומושבות פטרייתיות. Identification of fungal plant diseases	זיהוי מחלות צמחים פטרייתיות	In house procedure	--- Coleosporium sp., Colletotrichum sp., Colletotrichum acutatum, Colletotrichum gloeosporioides, Coniella sp., Coniothyrium sp., Corioliopsis sp., Coryneum sp., Cronartium sp., Curvularia sp., Curvularia lunata, Cylindrocarpon sp., Cylindrocarpon-like sp., Cylindrocladium sp., Cylindrosporium sp., Cytospora sp., Cytosporella sp., Dactylonectria sp., Dactylium sp., Daldinia sp., Diaporthe sp., Didymella sp., Diplodia sp., Diplodina sp., Discosia sp., Dothiorella sp., Drechslera sp., Entomosporium sp., Entyloma sp., Epicoccum sp., Erysiphe sp., Exserohilum sp., Fomes sp., Fulvia fulva, Fumago sp., Fusarium sp., Fusarium avenaceum, Fusarium culmorum, Fusarium equiseti, Fusarium graminearum, Fusarium oxysporum, Fusarium poae, Fusarium proliferatum, Fusarium solani, Fusarium fujikoroi, Fusicladium sp., Fusicoccum sp., Gaeumannomyces sp., Ganoderma sp., Gelasinospora sp., Geotrichum sp., Gliocladium sp.,



Department: Testing Laboratory ISO/IEC 17025: 2017

Accreditation No. 105

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Agriculture - Agricultural Products				משפחת מוצרים: חקלאות- מוצרים חקלאים			
Biological Testing, Bacteria, Fungi and Yeast, Classification and Identification				בדיקות ביולוגיות, חיידקים, פטריות ושמרים, מיון וזיהוי			
	A	P	Plant tissue and Fungal colonies	רקמה צמחית ומושבות פטרייתיות. Identification of fungal plant diseases	זיהוי מחלות צמחים פטרייתיות	In house procedure	--- Gloeosporium sp., Glomerella spGnomonia sp., Graphiola phoenicis, Graphium sp., Hadrotrichum sorghi, Helminthosporium sp., Hendersonia sp., Lasiodiplodia sp., Leptographium sp., Leptosphaeria sp., Leptosphaerulina crassiasca, Leptosphaerulina trifolii, Leveillula taurica, Lophodermium pinastri, Macrophoma sp., Macrophomina sp., Macrospora sp., Marssonina sp., Mauginiella scaetiae, Melampsora sp., Melanospora sp., Microascus sp., Microdiplodia sp., Microstroma sp, Monilinia sp., Monilochaetes sp., Monosporascus sp., Mycocentrospora acerina, Mycosphaerella sp., Myrothecium sp., Nectria sp., Neocosmospora sp., Neofabreae sp., Neozygites sp., Nigrospora sp., Oidiopsis sp., Oidium sp.,



Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Agriculture - Agricultural Products				משפחת מוצרים: חקלאות- מוצרים חקלאים			
Biological Testing, Bacteria, Fungi and Yeast, Classification and Identification				בדיקות ביולוגיות, חיידקים, פטריות ושמרים, מיון וזיהוי			
	A	P	Plant tissue and Fungal colonies	רקמה צמחית ומושבות פטרייתיות. Identification of fungal plant diseases	זיהוי מחלות צמחים פטרייתיות	In house procedure	--- Passalora sp., Penicillium sp., Peronospora sp., Pestalotia sp., Pestalotiopsis sp., Pseudopestalotiopsis sp., Phacidiopycnis pyri, Phialophora sp., Phoma sp., Phomopsis sp., Phomopsis viticol, Phragmidium sp., Phyllachora sp., Phyllactinia sp., Phyllosticta sp., Physoderma alfalfae, Pileolaria terebinthi, Pyricularia sp., Plasmopara sp., Pleiochaeta setosa, Pleospora sp., Podosphaera sp., Polyporellus sp., Polyporus sp., Pseudocercospora sp., Pseudoperonospora sp., Puccinia sp., Pyricularia grisea, Pythium sp., Ramularia sp., Rhizoctonia sp., Rhizoctonia solani, Rhizopus sp., Ryncosporium sp., Rhynchosporium secalis, Rhytisma acerinum, Rosellinia necatrix., Sclerophthora rayssiae, Sclerospora sp., Sclerotinia sp., Sclerotinia sclerotiorum Sclerotium sp., Sclerotium rolfsii Scopulariopsis sp., Septoria sp., Sordaria sp., Sphaceloma rosarum,



Department: Testing Laboratory ISO/IEC 17025: 2017

Accreditation No. 105

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Agriculture - Agricultural Products				משפחת מוצרים: חקלאות- מוצרים חקלאים			
Biological Testing, Bacteria, Fungi and Yeast, Classification and Identification				בדיקות ביולוגיות, חיידקים, פטריות ושמרים, מיון וזיהוי			
	A	P	Plant tissue and Fungal colonies	רקמה צמחית ומושבות פטרייתיות Identification of fungal plant diseases	זיהוי מחלות צמחים פטרייתיות In house procedure	---	Sphacelotheca sp., Sphaeropsis sp., Spilocaea sp., Spongospora subterranea, Stagonospora sp., Stemphylium sp., Stigmina carpophila, Stromatinia sp., Taphrina deformans, Thielaviopsis sp., Thielaviopsis basicola Tilletia caries, Tilletia tritici, Trichothecium sp., Tuberculina sp., Ulocladium sp., Urocystis agropyri, Uromyces sp., Ustilago sp.; Verticillium sp., Venturia inaequalis, Verturia pirina.



Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Agriculture - Agricultural Products				משפחת מוצרים: חקלאות- מוצרים חקלאים			
Biological Testing, Nematodes				בדיקות ביולוגיות, נמטודות			
2	A	P	Soil and plant tissue	קרקע ורקמה צמחית Detection and identification of plant pathogenic nematodes	גילוי וזיהוי נמטודות פתוגניות לצמחים	In house procedure	--- Based on: 1. Siddiqi, M.R. (2000) Tylenchida Parasites of plants and Insects, 2nd edition, Cabi Publishing, Cab International, Wallingford, UK, 833pp. 2. Nickle W.(1991) Manual of agricultural nematology. 3. Marcel Dekker & J.Hunt (1993) Aphelenchida, Longidoridae and Trichodoridae: Their Systematics and Bionomics. CAB Lamberti F. (1974), Nematode vectors of plant viruses, V.2 4. Paramonov A.(1968) Plant-parasitic nematodes, V.2 5. Krall e. (1978), Root-parasitic nematodes (Hoplolaimidae). Nematodes: Anguina tritici, Aphelenchoides besseyi, Aph. fragariae, Aph. subtanius, Aph.ritzemabosi, Aph.blastophthorus, Bursaphelenchus xylophilus, B.mucronatus, Criconemoides sp.,



Department: Testing Laboratory ISO/IEC 17025: 2017

Accreditation No. 105

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Agriculture - Agricultural Products				משפחת מוצרים: חקלאות- מוצרים חקלאים			
Biological Testing, Nematodes				בדיקות ביולוגיות, נמטודות			
	A	P	Soil and plant tissue	קרקע ורקמה צמחית Detection and identification of plant pathogenic nematodes	גילוי וזיהוי נמטודות פתוגניות לצמחים In house procedure	---	Ditylenchus dipsaci, D.destructor, Helycotylenchus dihystra, H. multicinctus, H. pseudorobustus, Hemicycliophora sp., Hirschmanniella oryzae, Heterodera avenae, H. latipons, H. schactii, Hoplolaimus sp., Longidorus africanus, L. cohni, L. elongatus, L. vineacola, Meloidogyne arenaria, M. artiellia, M. hapla, M. incognita, M. javanica, M. marylandi,,M.chitwoodi, Paratylenchus sp., Pr. penetrans, Pr. thornei, Pr. vulnus, Rotylenchulus macrodoratus, R. macrosomus, R. reniformis, Rotylenchus robustus, Rodopholus similis, R.citrophilus, Scutellonema brachyurum, Trichodorus christiei, Tr. primitivus, Tylenchorinachus dubius, T.cilindricus, Tylenchulus semipenetrans, Xiphinema brevicolle, X. index, X. insigne, X. italiae X. mediterraneum, X. pini,



Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: : Agriculture - Agricultural Products				משפחת מוצרים: חקלאות-מוצרים חקלאים			
Seeds & Plants Health, Immunochemistry				בריאות זרעים וצמחים, אימונוכימיה			
3	C	P	Plant tissue	רקמה צמחית Detection and identification of Viruses by ELISA	גילוי וזיהוי וירוסים בשיטת ELISA	In house procedure	--- Based on: DAS-ELISA kit and Clark, M.F. and A.N. Adams (1977), Characteristics of the microplate method of enzyme-linked immunosorbent assay for the detection of plant viruses. Journal of General Virology 34:475-483. ELISA = Enzyme Linked Immunosorbent Assay For Type C details see list no: Annex 5 of SOP 00.06-113
4	C	P	Plant tissue	רקמה צמחית Detection and Identification of bacteria by ELISA	גילוי וזיהוי חיידקים בשיטת ELISA	In house procedure	--- Based on: DAS-ELISA kit and Clark, M.F. and A.N. Adams (1977) Characteristics of the microplate method of enzyme-linked immunosorbent assay for the detection of plant viruses. Journal of General Virology 34:475-483. For Type C details see list no: Annex 5 of SOP 00.06-113



Department: Testing Laboratory ISO/IEC 17025: 2017

Accreditation No. 105

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks		
Group of products: Agriculture, Agricultural products					משפחת מוצרים: חקלאות, מוצרים חקלאיים				
Seeds & Plants Health, Chemical Testing, Chromatography, GC					בריאות זרעים וצמחים, בדיקות כימיות, כרומטוגרפיה, GC				
5	C	P	Identification of plants pathogenic bacteria, and environmental bacteria origin from isolated colony	זיהוי חיידקים פתוגניים לצמחים וחיידקים סביבתיים, שמקורם ממושבה מבודדת	Fatty acid profile assay	בדיקת פרופיל חומצות שומן	In house procedure	---	MIDI Inc. Sherlock Microbial Identification System & Sherlock Library Generation System. This method refers to bacteria that have ability to grow on culture media at laboratory conditions. This method does not include the isolation stage. For Type C details see list no: Annex 9 of SOP 00.06-109

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks		
Group of products: Agriculture, Agricultural products					משפחת מוצרים: חקלאות, מוצרים חקלאיים				
Seeds & Plants Health, Chemical Testing, Spectroscopy					בריאות זרעים וצמחים, בדיקות כימיות, ספקטרוסקופיה				
6	C	P	Identification of plants pathogenic bacteria and environmental bacteria origin from isolated colony	זיהוי חיידקים פתוגניים לצמחים וחיידקים סביבתיים, שמקורם ממושבה מבודדת	carbon source utilization assay	בדיקת ניצול מקורות פחמן	In house procedure	---	Biolog Inc. Biolog Microbial Identification System & GEN III Microplate. This method refers to bacteria that have ability to grow on culture media at laboratory conditions. This method does not include the isolation stage. For Type C details see list no: Annex 8 of SOP 00.06-109



Department: Testing Laboratory ISO/IEC 17025: 2017

Accreditation No. 105

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks		
Group of products: Food, Water and Beverages				משפחת מוצרים: מזון, מים ומשקאות					
Chemical Testing, Chromatography, GC\MS, LC/MS/MS				בדיקות כימיות, כרומטוגרפיה, LC/MS/MS, GC\MS					
7	C	P	High Water Content Food of Plant Origin	מזון ממקור צמחי בעל תכולת מים גבוהה	Pesticides	שאריות חומרי הדברה	In house procedure	----	Based on: 1. SANTE 11813, Guidance document on analytical quality control and method validation procedures for pesticides residues analysis in food and feed. 2. Analytical Methods for Pesticides Residue in Foodstuffs, Ministry of Public Health, The Netherlands and Anastassiades, M., Lehotay, S. J., Stajnbaher, D., and Schenck, F. J. (2003). 3. Fast and easy multiresidue method employing acetonitrile extraction/partitioning and "dispersive solid-phase extraction" for the Determination of Pesticide Residues in Produce. J.AOAC Int. 86, 412-421. For Type C details see list no: 00.05-46T.01



Department: Testing Laboratory ISO/IEC 17025: 2017

Accreditation No. 105

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: Food, Water and Beverages				משפחת מוצרים: מזון, מים ומשקאות			
Chemical Testing, Chromatography, GC\MS, LC/MS/MS				בדיקות כימיות, כרומטוגרפיה, LC/MS/MS, GC\MS			
8	C	P	High Acid Content and High Water Content Food of Plant Origin	מזון ממקור צמחי בעל חומציות גבוהה ובעל תכולת מים גבוהה Pesticides	שאריות חומרי הדברה In house procedure	---	Based on: 1. SANTE 11813, Guidance document on analytical quality control and method validation procedures for pesticides residues analysis in food and feed. 2. Analytical Methods for Pesticides Residue in Foodstuffs, Ministry of Public Health, The Netherlands and Anastassiades, M., Lehotay, S. J., Stajnbaher, D., and Schenck, F. J. (2003). 3. Fast and easy multiresidue method employing acetonitrile extraction/partitioning and "dispersive solid-phase extraction" for the Determination of Pesticide Residues in Produce. J.AOAC Int. 86, 412-421. For Type C details see list no: 00.05-46T.01

Item	Scope Type	Site	Materials / Products Tested	Types of Test / Properties Measured	Standard / Method	Opinion and Interpretation	Remarks
Group of products: : Agriculture- Agricultural Products				משפחת מוצרים: חקלאות-מוצרים חקלאיים			
Chemical Testing, Chromatography, GC , HPLC				בדיקות כימיות, כרומטוגרפיה, HPLC , GC			
9	C	P	Pesticides	חומרי הדברה Active material concentration	ריכוז החומר הפעיל In house procedure	---	For Type C details see list no: 00.05-48T.01