

## طرق موصى بها في تحليل مخلفات مبيدات الآفات

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### بيان المحتويات

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من الممكن اعتماد الطرق التحليلية المدونة هنا، قدر تعلق الأمر بالتجربة العملية للجنة المعنية بمخلفات مبيدات الآفات التابعة لهيئة الدستور الغذائي، من أجل التعرف على مخلفات مبيدات الآفات لأغراض تنظيمية. إن القائمة، الواردة في الجزء 2، غير شاملة، كما يمكن تطبيق الطرق التي لم يرد ذكرها في القائمة شريطة إثبات قدرتها على تحقيق نتائج ملموسة أثناء قيام المحلل باستخدامها.

## 2-1 معايير انتقاء طرق التحليل

استخدمت اللجنة المعنية بمخلفات مبيدات الآفات التابعة لهيئة الدستور الغذائي، كلما كان ذلك ممكناً، المعايير التالية عند انتقاء طرق تحليلية:

- (أ) طرق متوفرة عبر المنظمات الدولية والقطرية المعنية بوضع المواصفات، والكتب، والكتيبات، والإصدارات العامة ذات الصلة، والانترنت.
- (ب) طرق تمت دراستها بشكل جماعي أو ثبت نجاحها في عدد من المختبرات. أما بخصوص الطرق التي تم التثبت من نجاحها في مختبر واحد، فإنه ينبغي التثبت من أنها تجري، كحد أدنى، طبقاً للخطوط التوجيهية لأمثل الطرق في تحليل مخلفات مبيدات الآفات.
- (ج) طرق قادرة على تحديد أكثر من مخلف من المخلفات، أي طرق متعددة المخلفات.
- (د) طرق ملائمة لأكبر عدد ممكن من السلع بنسبة تركيز تعادل أو تقل عن الحدود القصوى المحددة لمستوى المخلفات MRL.
- (هـ) طرق قابلة للتطبيق في مختبر تنظيمي مجهز بمعدات تحليلية تكون متوفرة على وجه العموم.

وقد أعطيت الأولوية للتحليل الكروماتوغرافي الغازي اللون أي اللوني أو الصبغي أو الكروماتوغرافي السائل عالي الأداء بوصفه مرحلة فصل لطرق التحليل. لكن من الممكن، وفي حالات محددة، تطبيق طرق كشف في ضوء ما تم تحديده في الخطوط التوجيهية لأمثل الطرق في تحليل المخلفات. وقد تم بيان طرق الاختبار في القائمة.

## 3-1 تطبيق الطرق

من الضروري دائماً، قبل تطبيق التحليل، تثبيت الطريقة وبيان كفاءة المحلل. ومن الضروري أيضاً التحقق بصورة منتظمة من أداء الطريقة خلال تطبيقها. وقد تم وصف عمليتي التثبيت والتحقق من الأداء في الخطوط التوجيهية لأمثل الطرق في تحليل مخلفات مبيدات الآفات.

## 4-1 مراجع الإصدارات ذات الصلة

وفي أدناه توصيات أخرى ذات صلة بالدستور الغذائي في مجال تطبيق الحدود القصوى لهيئة الدستور الغذائي لمخلفات مبيدات الآفات:

- 1- طرق موسى بها لفحص عينات عند تحديد مخلفات مبيدات الآفات  
(المرجع : Codex Alimentarius Vol.2, Section 3)
- 2- جزء من السلع التي ينطبق عليها حدود المخلفات القصوى للدستور الغذائي والتي ينبغي تحليلها.  
(المرجع : Codex Alimentarius Vol.2, Section 4.1)
- 3- ملاحظات توضيحية حول الحدود القصوى للدستور الغذائي الخاصة بمخلفات مبيدات الآفات.  
(المرجع : Codex Alimentarius Vol.2, Section 1)
- 4- خطوط توجيهية للدستور الغذائي حول التطبيق الأمثل في تحليل مخلفات مبيدات الآفات.  
(المرجع : Codex Alimentarius Vol.2, Section 4)

كما يمكن العثور على مراجع في الفقرة 3 لما يأتي :

- مقالات عامة حول منهجية مخلفات مبيدات الآفات (الفقرة 1-3)
- كتيبات (الفقرة 2-3)؛
- بحوث فردية (الفقرة 3-3).

بعد كل مرجع يرد ذكره في الفقرة 3-3، يُشار إلى المركبات التي تنطبق عليها الطرق المستخدمة من خلال رقمها المثبت في اللجنة المعنية بمخلفات مبيدات الآفات التابعة لهيئة الدستور الغذائي CCPR .

## 2- قائمة طرق التحليل

تشير الأرقام إلى الكتيبات والكتب الوارد ذكرها في الفقرة 2-3، أما الأسماء الخاصة بالمؤلف (الأول) للبحوث فقد دونت في الفقرة 3-3.

المراجع	المركب	رقم CCPR
1a, 1n, 1o, 1p, 2a, 2d, 2f, 3, 4 (XII-5, 6; S1-5, S8-10, S12, S19), 5, 7a (5, 6), 7c (S8-10, S12, S19), 8a, 8b, 8c, 8d, 9a (M1, M12), 10 Ambrus, Abbott (2), Panel (4), Stijve (2, 3)	aldrin/dieldrin ألدرين وديلدرين	001
2c, 2d, 2e, 2f, 3, 4(XII-6;S5,S8S19;63, 63A), 7a (6), 7c (S8,S19),7d (255), 9a (M2, M5, M12), 10 Abbott (1), Ambrus, Panel (3)	azinphos-methyl أزينفوس-ميثيل	002

2A, 2D, 3, 4 (XII-4, 6; S19; 8, 43), 7a (6), 7c (S19), 9b, 10 Baker, PB (2)	binapacryl بيناباكريل مبيد عنكب	003
2A, 2C, 2D, 4 (XII-3, 6; S5, S8-10, S13, 217, S19; 210, 210A), 6d, 7A (3, 6), 7c (S8-10, S13, S17, S19), 9a (M2, M5, M12), 10 Appott (1), Ambrus, Bottomley, Panel (7,8), Stijve (7)	bromophos بروموفوس	004
2a, 2c, 2d, 3, 4 (XII-3,6; S8, S13, S17, S19; 263) 6d, 7a, (3,6), 7c (S13, S17, S19), 9a (M2, M5, M12) 10 Abott (1), Ambrus	bromohos-ethyl بروموفوس-إيثيل	005
2d,2e,4 (XII-6;S8, S19,S20; 266A), 6b, 7c, (S8, S19, S20), 9a (M1, M12), 10 Ambrus, Baker, PB (1), Buettler, Gilvydis, Pomerantz	Captafol كابتافول مبيد فطور	006
2a, 2d, 2e, 3, 4 (XII-6; S8, S12, S19, S20; 12, 12A), 7a (6), 7b, 7c (S8, S12, S19, S20), 9a (M1, M12), 10 Ambrus, Baker, PB (1), Buetter, Gilvydis, Pomerantz	Captan كابتان مبيد فطور	007
1q, 2d, 2e, 2f, 2g, 3, 4, (XII-6; 100), 6c, 7a (6), 9a (M2, M13), 10 Brauckhoff, Chaput, Lawrence (1)	carbaryl كارباريل	008
9a (M8) Mestres (2)	Carbon disulphide ثاني كبريتيد الكاربون مُدخن	009
1d, 9a (M8) Daft, Mestres (2), Panel (5)	Carbon tetrachloride رابع كلوريد الكاربون مُدخن	010
2a, 2c, 2d, 2e, 2f, 3, 3d, 4 (XII-5, 6; S8, S10, S13, S16, S19), 7a (5, 6), 7c (s8, S10, S13, S16, S19), 8b, 8e, 9a (M2, M5, M12) 10 Abbott (1), Ambrus	Carbophenothion كاربوفينوثيون	011
1a, 1o, 2a, 2d, 2f, 3, 4 (XII-5, 6; S9, S10, S12, S19), 5, 7a, (5,6), 7c, (S9, S10, S12, S19), 6c, 6b, 6d, 8a, 8b, 8c, 9a (M1, M12),10 Panel (4), Stijve (3), Veierov	chlordan كلوردان	012

2e, 6a, 9a (M4), 10	chlordimeform كلورديميغورم	013
2c, 2d, 2e, 2f, 3, 4 (XII-3, 5, 6; S8, S13, S17, S19; 239), 5, 7a (3, 5, 6), 7c (S8, S13, S17, S19), (M2, M5, M12), 10 Abbott (1), Ambrus, Panel (7,8), Stijve (7)	chlorfenvinphos يكلورفينفينوس	014
6a, 9b Sachse, Stijve (5)	chlormequat كلوريد الكلوركولين (منظم نمو نباتي)	015
2a, 2d, 2e, 3, 4 (XII-6; S19), 7a (6), 7c (S19), 10	chlorobenzilate إيكلور بينزيلات	016
1p, 2a, 2c, 2d, 2e, 2f, 3, 4 (XII-6; S8, S9, S13, S19), 5, 7a (6), 7c (S8, S9, S13, S19), 8b, 8e, 9a (M2, M5, M12), 10 (Ambrus, Stijve (7))	chlorpyrifos إيكلوربيريفوس	017
2c, 2d, 2e, 3, 4 (XII-6; S19), 7a (6), 7c (S19), 8b, 8e, 9a (M2, M5, M12) Ambrus, Stijve (7)	coumaphos كومافوس	018
2d, 2e, 2f, 4 (XII-6; S19), 7a (6), 7c (S19), 8b, 8e Stijve (7)	crufomate كروفومات	019
2b, 2f, 3, 4 (27, 27A-380), 5,7d(27A-28A), 9a (M6) Ebing, Specht (1)	2,4-D	020
1a, 1n, 1o, 1p, 2a, 2d, 2f, 3, 4 (XII-4, 5, 6; S1-5, S8-10, S12, S19), 5, 6c, 7a (4,5,6), 7c(S8-10, S12, S19), 8a, 8b, 8c, 9a (M1, M12), 10 Abbott (2), Ambrus, Bottomley, Panel (4), Stijve (2, 3), Veierov	DDT د د ت	021
1a, 2a, 2c, 2d, 2f, 3, 4 (XII-5, 6; S5, S8, S10, S13, S17, S19; 35A, 35B), 6c, 7a (5, 6), 7c(S8, S10, S13, S17, S19), 8e, 9a (M2, M5, M12), 10 Abbott (1), Ambrus, Bottomley, Panel (7), Stijve (7)	diazinon ديازينون	022

1d, 8f, 9a (M8) Daft, Heikes, Mestres (2), Panel (5), Rains	1,2-dibromoethane 1,2-ديبروموايثان مدخن	023
1d, 9a (M8) Daft, Mestres (2), Panel (5)	1,2-dichloroethane 1,2-دي كلور الأيثان داخن	024
2c, 2d, 2e, 2f, 3, 4 (XII-3, 6; S5, S8, S13, S17, S19; 200), 7a (3, 6), 7c(S13, S17, S19), 8b, 8e, 9a (M2, M5), 10 Abbott (1), Ambrus, Bottomley, Panel (1, 3, 7), Stijve (7)	dichlorvos ديكلورفوس	025
2a, 2d, 2f, 3, 4 (XII-6; S8, S9, S12, S19; 69, 69A), 7a (6), 7c (S8, S9, S12, S19), 9a(M1, M12), 10	dicofol ديكوفول	026
2c, 2d, 2f, 3, 4 (XII-3, 6; S5, S8, S13, S17, S19; 42, 236), 5, 7a (3, 6), 7c(S8, S13, S17, S19), 9a (M5, M12), 10 Abbott (1), Ambrus, Panel (3, 7, 8), Stijve (7)	dimethoate ديميثوات	027
2c, 2d, 4 (XII-6; S8, S13, S19), 7a (6), 7c (S8, S9, S19), 8e, 9a (M2, M5, M12), 10 Abbott (1), Stijve (7)	dioxathion دي أوكساثيون	028
2d, 4 (XII-6; 256A), 7a (6), 10 Farrow, Kitada, Lord, Mestres (1), Player, Pyysalo	diphenyl ثنائي الفينيل (مادة حافظة)	029
2d, 2e, 4 (XII-6), 7a (6), 10 Allen (1), Luke	diphenylamine ديفينيل أمين مانع لسفحة المخزن	030
2e, 4 (37), 6d Calderbank (2), King	diquat ديكوات مبيد أعشاب	031
1b, 2a, 2d, 2f, 3, 4 (XII-5,6; S5, S8, S12, S19; 50), 5, 7a (5, 6), 7c (S19), 5, 9a (M1, M12), 10 Abbott (2), Ambrus	endosulfan إندوسولفان	032
1a, 1o, 2a, 2d, 2f, 3, 4 (XII-5, 6; S5, S9, S10, S12, S19), 5, 7a (5, 6), 7c(S9-10, S12, S19), 8a, 8b, 8c, 8d, 9a (M1, M12), 10 Abbott (2), Ambrus, Panel (4)	Endrin إندرين	033

1a, 2a, 2c, 2d, 2f, 3, 4 (XII-3, 5, 6; S8, S9, S13, S17, S19), 7a (3, 5, 6), 7c (S8, S9, S13, S17, S19), 8e, 9a (M2, M5, M12), 10 Abbott (1), Ambrus, Stijve (7)	ethion إيثيون	034
2d, 2e, 4 (XII-6; 500) Winell	ethoxyquin إيثوكسيكين عامل مكافحة السفعة	035
1a, 2a, 2c, 2d, 2f, 3, 4 (XII-3, 5, 6; S8-10, S13, S17, S19), 7a (3, 5, 6), 7c (S8-10, S13, S17, S19), 8b, 8e, 9a (M2, M5), 10 Abbott (1), Ambrus, Panel (7, 8), Stijve (7)	fenchlorphos فينكلورفوس	036
2a, 2c, 2d, 2f, 3, 4 (XII-3, 6; S5, S8, S13, S17, S19; 58), 6a, 8e, 9a (M2, M5), 10 Abbott (1), Ambrus, Bottomley, Desmarchelier, Panel (7,8), Stijve (7)	fenitrothion فينيتروثيون	037
2c, 2d, 2e, 3, 4 (XII-3, 6; S8, S13, S16, S17, S19), 6a, 7a (3, 6), 7c (S8, S13, S16, S17, S19), 9a (M2, M5), 10	fensulfothion فينسولفوثيريون	038
2c, 2d, 2e, 2f, 3, 4 (XII-3, 6; S5, S8, S13, S16, S17, S19), 7a (3, 6), 7c(S8, S13, S16, S17, S19), 8e, 9a (M2, M5), 10 Abbott (1), Ambrus, Hill	fenthion فينيثيون	039
2e, 4 (S24; 55A, 55B), 6e Baker, PG (1)	fentin فينتين مبيد فطور	040
2a, 2c, 2d, 3, 4 (XII-6; S8, S12, S19, S20; 91, 91A), 7a (6), 7b, 7c (S8, S12, S19, S20), 9a (M1, M12), 10 Ambrus, Baker, PB (1), Buettler, Gilvydis, Pomerantz	folpet فولبيت مبيد فطور	041
2d, 4 (XII-6; S5, S8, S19; 236), 6b, 7a (6), 7c (S8, S19), 9a (M2, M5, M12), 10 Abbott (1), Ambrus	formothion فورموثيريون	042
1a, 1n, 1o, 2a, 2d, 2f, 3, 4 (XII-5, 6; S 1-4, S8-10, S12, S19), 5, 6c, 6d, 7a (5, 6), 7c(S8-10, S12, S19), 8a, 8b, 8c, 8d, 9a (M1, M12), 10 Abbott (2), Ambrus, Stijve (2, 3), Veierov	heptachlor هيبتاكلور	043

1k, 1o, 2a, 2d, 3, 4 (XII-1, 5, 6; S9, S10, S12, S19), 5, 6c, 7a (1, 5, 6), 7c(S9, S10, S12, S19), 8a, 8b, 8c, 8d, 9a (M1, M12), 10 Ambrus, Panel (4), Stijve (2, 3), Veierov, Zimmerli	hexachlorobenzene هيكساكلوروبينزين مبيد فطور	044
2e, 4 (11), 9b Darr	hydrogen cyanide سيانيد الهيدروجين مُدخَن	045
2e, 4 (13), 9a (M8) Scudamore (2)	hydrogen phosphide فوسفيد الهيدروجين	046
2e, 4 (S18; 149), 7c (S18), 9b Panel (2), Roughan, Stijve (1,4), VanWees	inorganic bromide بروميد لاعضوي مُدخَن	047
1a, 1o, 2a, 2d, 3, 4 (XII-5, 6; S1-5, S8-10, S12, S19), 5, 7a (5, 6), 7c(S8-10, S12, S19), 8a, 8b, 8c, 8d, 9a (M1, M12), 10 Abbott (2), Ambrus, Panel (4), Stijve (2,3), Veierov	lindane ليندان	048
1a, 2a, 2c, 2d, 2f, 3, 4 (XII-3, 5, 6; S5, S8, S10, S13, S17, S19; 72), 7a(3, 5, 6), 7c (S8, S10, S13, S17, S19), 8e, 9a (M2, M5, M12), 10 Abbott (1), Ambrus, Bottomley, Desmarchelier, Panel (1, 3, 7, 8), Stijve(7)	malathion مالاثيون	049
dithiocarbamates : 105 أنظر الى المركب في التسلسل	mancozeb مانكوزيب مبيد فطور	050
2a, 2c, 2d, 2e, 3, 4 (XII-6; S5, S8, S13, S19; 232), 6b, 7a (6), 7c (S8, S13, S19), 9a (M2, M5, M12), 10 Ambrus	methidathion ميثيداثيون	051
9a (M8) Mestres (2), Panel (5)	methyl bromide ميثيل بروميد مُدخَن	052
2c, 2d, 2f, 3, 4 (XII-3, 6; S5, S8, S13, S17, S19; 93), 7a (3, 6), 7c (S8, S13, S17, S19), 9a (M2, M5, M12), 10 Abbott (1), Ambrus	mevinphos ميفينفوس	053

1p, 2c, 2d, 2e, 2f, 4 (XII-6; S19), 7c (S19), 9a (M2, M5), 10 Ambrus	monocrotophos مونوكروتوفوس	054
1p, 2c, 2d, 4 (XII-6; S13, S17, S19; 236), 5, 7a (6), 7c (S13, S17, S19), 9a (M2, M5), 10 Abbott (1), Panel (3)	omethoate أوميثوات	055
2d, 2e, 10 Farrow, Kitada, Lord, Mestres (1), Player, Pyysalo	ortho-phenylphenol أورثو-فينيل فينول مبيد فطور	056
2e, 4 (134), 6d, 7b Calderbank (1), Khan, King, Lott	paraquat باركوات مبيد أعشاب	057
1a, 2a, 2c, 2d, 2f, 3, 4 (XII-3, 4, 5, 6; S5, S8, S10, S13, S17, S19; 87A, 87B), 7a (3, 4, 5, 6), (S8, S10, S13, S17, S19), 8e, 9a (M2, M5, 7c M12), 10 Abbott (1), Ambrus, Panel (3)	parathion باراثيون	058
1a, 2a, 2c, 2d, 2f, 3, 4 (XII-3, 5, 6; S5, S8, S13, S17, S19; 88A, 88B), 7a(3, 5, 6), 7c (S8, S13, S17, S19), 8e, 9a (M2, M5, M12), 10 Abbott (1), Ambrus, Panel (3)	parathion-methyl باراثيون - ميثيل	059
2a, 2c, 2d, 2e, 3, 4 (XII-5, 6; S8, S19), 5, 6a, 7a (5, 6), 7c (S8, S19), 9a(M2, M5, M12), 10 Abbott (1), Ambrus, Stijve (7)	phosalone فوزالون	060
2c, 2d, 2e, 3, 4 (XII-6; S5, S13, S19), 7a (6), 7c (S13, S19), 9a (M5, M12), 10 Abbott (1), Ambrus, Bottomley	phosphamidon فوسفاميدون	061
2e, 4 (XII-6; S19, S22; 163), 7a (6), 7c (S19), 9b Krause (2)	piperonyl butoxide بيبيرونيل بوت أكسيد	062
2a, 2d, 2e, 4 (XII-6; S19, S22), 6b, 7a (6), 7c (S19), 9b	pyrethrins بيريثرينات	063
2a, 2d, 2f, 3, 4 (XII-4, 5, 6; S8, S9, S12, S19; 99), 7a (4, 5, 6), 7c (S8, S9, S12, S19), 9a(M1, M12), 10	quintozene كينتوزين مبيد فطور	064

2d, 2e, 2h, 4 (XII-6; 256A, 256B),7d (256A, 256B), 8g, 9a (M3), 10 Farrow, Kitada, Mestres (1, 3), Rajzman, Yamada	thiabendazole ثيابيندازول مبيد فطور	065
2c, 2d, 2e, 2f, 3, 4 (XII-6; S5, S13, S19; 112), 5, 7a (6), 7c (S13, S19), 8e, 9a (M2, M5, M12) Abbott (1), Ambrus, Bottomley	trichlorfon إتريكلورفون	066
2e, 4 (S24), 6a, 9b Moellhoff (2)	cyhexatin سيهيكساتين مبيد عنكب	067
2c, 2d, 4 (XII-3, 5, 6; S5, S8, S13, S17, S19; 62, 62A), 7a (3, 5, 6), 7c(S8, S13, S17, S19), 9a (M2, M5, M12), 10 Abbott (1), Ambrus	azinphos-ethyl أزينفوس-إيثيل	068
carbendazim:072 أنظر الى التسلسل رقم	benomyl بينوميل مبيد فطور	069
2a, 2d, 4 (XII-6; S19), 7a (6), 7c (S19), 9a (M12), 10 Stijve (6)	bromopropylate بروموبروبيلات	070
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### 3- مراجع الإصدارات ذات الصلة

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nonfat foods: Section 303 fatty foods: Section 304, E1- E5+C1-C4	Table 201-A and sections 211.1, 212.1, 231.1, 232.1 and 252	Vol. I	(a)
Section 402	Table 201-D and section 221.1	Vol. I	(b)
[method not in PAM I 3rd edition]	Table 201-H and section 232.3	Vol. I,	(c)
Section 302 E1-E4, no cleanup	Table 201-I and section 232.4	Vol. I	(d)
	Method under compound name (when in this reference several methods have been given, they are generally listed in order of preference)	Vol. II	(e)
(not in PAM I 3 <sup>rd</sup> edition)	Table 651-A and sections 650 and 651	Vol. I	(f)
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