

National Referral Laboratory

ICAR-National Research Centre for Grapes, Manjari farm, Pune 412307

TARGET LIST OF ANALYTES (PT ID: NRL / PT-FV /2026/Grape-2)

Sr. No.	Name of Chemicals/Pesticides	PT Range (mg kg ⁻¹)
1.	1-Naphthylacetamide and 1-naphthylacetic acid (sum of 1-naphthylacetamide and 1-naphthylacetic acid and its salts, expressed as 1-naphthylacetic acid)	0.02-0.250
2.	2,4-D (sum of 2,4-D and its esters and its conjugates, expressed as 2,4-D)	0.02-0.250
3.	4-Bromo-2-chlorophenol (metabolite of Profenophos)	0.02-0.250
4.	4-Chloro-3-methylphenol	0.02-0.250
5.	4-CPA (4-Chlorophenoxy acetic acid)	0.02-0.250
6.	6-Benzyl adenine	0.02-0.250
7.	Abamectin (sum of avermectin B1a, avermectin B1b and delta-8,9 isomer of avermectin B1a)	0.02-0.250
8.	Acephate	0.02-0.250
9.	Acetamiprid (R)	0.02-0.250
10.	Afidopyropen	0.02-0.250
11.	Alachlor	0.02-0.250
12.	Aldrin (Aldrin and dieldrin combined expressed as dieldrin)	0.02-0.250
13.	Allethrin and Bioallethrin	0.02-0.250
14.	Ametoctradin	0.02-0.250
15.	Ametryn	0.02-0.250
16.	Amisulbrom	0.02-0.250
17.	Anilofos	0.02-0.250
18.	Atrazine	0.02-0.250
19.	Azadirachtin	0.02-0.250
20.	Azimsulfuron	0.02-0.250
21.	Azoxystrobin	0.02-0.250
22.	Benalaxyl including other mixtures of constituent isomers including Benalaxyl-M (sum of isomers)	0.02-0.250
23.	Bendiocarb	0.02-0.250
24.	Benomyl (see carbendazim)	0.02-0.250
25.	Bensulfuron-methyl	0.02-0.250
26.	Bifenazate (sum of bifenazate plus bifenazate-diazene expressed as bifenazate) (F)	0.02-0.250
27.	Bifenthrin (sum of isomers) (F)	0.02-0.250
28.	Bispyribac (sum of bispyribac, its salts and its esters, expressed as bispyribac)	0.02-0.250
29.	Bitertanol (sum of isomers) (F)	0.02-0.250
30.	Boscalid (F) (R) (A)	0.02-0.250
31.	Broflanilide	0.02-0.250
32.	Bupirimate (A),(F),(R)	0.02-0.250
33.	Buprofezin (F)	0.02-0.250

Sr. No.	Name of Chemicals/Pesticides	PT Range (mg kg ⁻¹)
34.	Butachlor	0.02-0.250
35.	Captafol	0.02-0.250
36.	Captan (Sum of captan and tetrahydrophthalimide (THPI), expressed as captan) (R) (A)	0.02-0.250
37.	Carbaryl (F)	0.02-0.250
38.	Carbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim) (R)	0.02-0.250
39.	Carbofuran (sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3OH carbofuran expressed as carbofuran) (R)	0.02-0.250
40.	Carboxin (carboxin plus its metabolites carboxin sulfoxide and oxycarboxin (carboxin sulfone), expressed as carboxin)	0.02-0.250
41.	Carfentrazone-ethyl (determined as carfentrazone and expressed as carfentrazone-ethyl)	0.02-0.250
42.	Carpropamid	0.02-0.250
43.	Cartap hydrochloride	0.02-0.250
44.	Chlorantraniliprole	0.02-0.250
45.	Chlordane (cis & trans)	0.02-0.250
46.	Chlorfenapyr	0.02-0.250
47.	Chlorfenvinphos	0.02-0.250
48.	Chlorfluazuron	0.02-0.250
49.	Chlorimuron-ethyl	0.02-0.250
50.	Chlormequat (CCC) (sum of chlormequat and its salts, expressed as chlormequat-chloride)	0.02-0.250
51.	Chlorothalonil	0.02-0.250
52.	Chlorpropham	0.02-0.250
53.	Chlorpyrifos	0.02-0.250
54.	Chlorpyrifos-methyl	0.02-0.250
55.	Chromafenozide	0.02-0.250
56.	Cinmethylen	0.02-0.250
57.	Clethodim (sum of Sethoxydim and Clethodim including degradation products calculated as Sethoxydim)	0.02-0.250
58.	Clofentezine (R)	0.02-0.250
59.	Clomazone	0.02-0.250
60.	Clothianidin	0.02-0.250
61.	Coumachlor	0.02-0.250
62.	Coumatetralyl	0.02-0.250
63.	Cyantraniliprole	0.02-0.250
64.	Cyazofamid	0.02-0.250
65.	Cyclaniliprole	0.02-0.250
66.	Cyenopyrofen	0.02-0.250
67.	Cyflufenamid (sum of cyflufenamid (Z-isomer) and its E-isomer, expressed as cyflufenamid) (A) (R)	0.02-0.250
68.	Cyflumetofen	0.02-0.250
69.	Cyfluthrin (including other mixtures of constituent isomers sum of isomers)	0.02-0.250

Sr. No.	Name of Chemicals/Pesticides	PT Range (mg kg⁻¹)
70.	Cyhalofop-butyl	0.02-0.250
71.	Cymoxanil	0.02-0.250
72.	Cypermethrin (including other mixtures of constituent isomers, sum of isomers)	0.02-0.250
73.	Cyproconazole	0.02-0.250
74.	Cyprodinil (R) (F)	0.02-0.250
75.	Dazomet (Methylisothiocyanate resulting from the use of Dazomet and metam)	0.02-0.250
76.	DDT (all isomers, sum of p,p' DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE (DDD) expressed as DDT)	0.02-0.250
77.	Deltamethrin (cis-deltamethrin) (F)	0.02-0.250
78.	Diafenthiuron	0.02-0.250
79.	Diazinon	0.02-0.250
80.	Dichlorvos	0.02-0.250
81.	Diclofop (sum diclofop-methyl and diclofop acid expressed as diclofopmethyl)	0.02-0.250
82.	Diclosulam	0.02-0.250
83.	Dicofol (sum of p,p' and o,p' isomers)	0.02-0.250
84.	Dieldrin (see Aldrin)	0.02-0.250
85.	Difenoconazole	0.02-0.250
86.	Diiflubenzuron	0.02-0.250
87.	Dimethoate	0.02-0.250
88.	Dimethomorph (sum of isomers)	0.02-0.250
89.	Dinocap (sum of dinocap isomers and their corresponding phenols expressed as dinocap)	0.02-0.250
90.	Dinotefuran	0.02-0.250
91.	Diquat	0.02-0.250
92.	Dithianon	0.02-0.250
93.	Diuron	0.02-0.250
94.	Dodine	0.02-0.250
95.	Edifenphos	0.02-0.250
96.	Emamectin benzoate B1a, expressed as emamectin	0.02-0.250
97.	Endosulphan (All isomers, sum of alpha- and beta-isomers and endosulphan sulphate expressed as endosulphan)	0.02-0.250
98.	Endrin	0.02-0.250
99.	Epoxiconazole	0.02-0.250
100.	Ethephon	0.02-0.250
101.	Ethion	0.02-0.250
102.	Ethiprole	0.02-0.250
103.	Ethofenprox (Etofenprox)	0.02-0.250
104.	Ethoxysulfuron	0.02-0.250
105.	Etoxazole	0.02-0.250
106.	Etrinfos	0.02-0.250
107.	Famoxadone	0.02-0.250
108.	Fenamidone	0.02-0.250
109.	Fenarimol	0.02-0.250
110.	Fenazaquin	0.02-0.250

Sr. No.	Name of Chemicals/Pesticides	PT Range (mg kg⁻¹)
111.	Fenhexamid (F)	0.02-0.250
112.	Fenitrothion	0.02-0.250
113.	Fenobucarb	0.02-0.250
114.	Fenoxaprop-p	0.02-0.250
115.	Fenpropathrin	0.02-0.250
116.	Fenpyroximate (A) (F) (R)	0.02-0.250
117.	Fenthion (fenthion and its oxygen analogue, their sulfoxides and sulfone expressed as parent)	0.02-0.250
118.	Fenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate) (F) (R)	0.02-0.250
119.	Fipronil (sum of fipronil + sulfone metabolite (MB46136) expressed as fipronil)	0.02-0.250
120.	Flonicamid (sum of flonicamid, TNFG and TNFA expressed as flonicamid) (R)	0.02-0.250
121.	Fluazifop-P (sum of all the constituent isomers of fluazifop, its esters and its conjugates, expressed as fluazifop)	0.02-0.250
122.	Flubendiamide	0.02-0.250
123.	Flucetosulfuron	0.02-0.250
124.	Fluchloralin	0.02-0.250
125.	Fluensulfone	0.02-0.250
126.	Flufenacet (sum of all compounds containing the N fluorophenyl-Nisopropyl moiety expressed as flufenacet equivalent)	0.02-0.250
127.	Flufenoxuron	0.02-0.250
128.	Flufenzin	0.02-0.250
129.	Flumioxazine	0.02-0.250
130.	Fluopicolide	0.02-0.250
131.	Fluopyram	0.02-0.250
132.	Flupyradifurone	0.02-0.250
133.	Flusilazole	0.02-0.250
134.	Fluthiacet-methyl	0.02-0.250
135.	Fluxapyroxad	0.02-0.250
136.	Fomesafen	0.02-0.250
137.	Forchlorfenuron (CPPU)	0.02-0.250
138.	Fosetyl-Al (sum fosetyl + phosphorous acid and their salts, expressed as fosetyl)	0.02-0.250
139.	Halosulfuron methyl	0.02-0.250
140.	Haloxifop (Sum of haloxifop, its esters, salts and conjugates expressed as haloxifop (sum of the R- and S-isomers at any ratio)) (F) (R)	0.02-0.250
141.	Heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)	0.02-0.250
142.	Hexachlorocyclohexane (HCH), alpha-isomer (F)	0.02-0.250
143.	Hexachlorocyclohexane (HCH), beta-isomer (F)	0.02-0.250
144.	Hexaconazole	0.02-0.250
145.	Hexazinone	0.02-0.250

Sr. No.	Name of Chemicals/Pesticides	PT Range (mg kg⁻¹)
146.	Hexythiazox	0.02-0.250
147.	Homobrassinolide	0.02-0.250
148.	Imazamox (Sum of imazamox and its salts, expressed as imazamox)	0.02-0.250
149.	Imazethapyr	0.02-0.250
150.	Imidacloprid	0.02-0.250
151.	Indaziflam	0.02-0.250
152.	Indoxacarb (sum of indoxacarb and its R enantiomer) (F)	0.02-0.250
153.	Iodosulfuron-methyl (sum of iodosulfuron-methyl and its salts, expressed as iodosulfuron-methyl)	0.02-0.250
154.	Iprobenphos	0.02-0.250
155.	Iprodione	0.02-0.250
156.	Iprovalicarb	0.02-0.250
157.	Isoprothiolane	0.02-0.250
158.	Isoproturon	0.02-0.250
159.	Ivermectin	0.02-0.250
160.	Karanjin	0.02-0.250
161.	Kasugamycin	0.02-0.250
162.	Kresoxim methyl	0.02-0.250
163.	Lambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers) (F)	0.02-0.250
164.	Lindane (Gamma-isomer of hexachlorocyclohexane (HCH)) (F)	0.02-0.250
165.	Linuron	0.02-0.250
166.	Lufenuron (any ratio of constituent isomers) (F)	0.02-0.250
167.	Malathion (sum of malathion and malaoxon expressed as malathion)	0.02-0.250
168.	Mandipropamid (any ratio of constituent isomers)	0.02-0.250
169.	Mefentrifluconazole	0.02-0.250
170.	Matrine & Oxymatrine	0.02-0.250
171.	Mepiquat (sum of mepiquat and its salts, expressed as mepiquat chloride)	0.02-0.250
172.	Meptyldinocap (sum of 2,4-DNOPC and 2,4-DNOP expressed as meptyldinocap)	0.02-0.250
173.	Metaflumizone (sum of E- and Z- isomers)	0.02-0.250
174.	Metalaxyl and Metalaxyl-M (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers))	0.02-0.250
175.	Metamifop	0.02-0.250
176.	Metamitron	0.02-0.250
177.	Methabenzthiazuron	0.02-0.250
178.	Methamidophos	0.02-0.250
179.	Methomyl	0.02-0.250
180.	Methoxyfenozide	0.02-0.250
181.	Metolachlor and S-Metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))	0.02-0.250

Sr. No.	Name of Chemicals/Pesticides	PT Range (mg kg⁻¹)
182.	Metrafenone	0.02-0.250
183.	Metribuzin	0.02-0.250
184.	Milbemectin (sum of milbemycin A4 and milbemycin A3, expressed as milbemectin)	0.02-0.250
185.	Monocrotophos	0.02-0.250
186.	Myclobutanil (sum of constituent isomers) (R)	0.02-0.250
187.	Nereistoxin	0.02-0.250
188.	Nitenpyram	0.02-0.250
189.	Novaluron	0.02-0.250
190.	Omethoate	0.02-0.250
191.	Orthosulfamuron	0.02-0.250
192.	Oxadiargyl	0.02-0.250
193.	Oxadiazon	0.02-0.250
194.	Oxathiapiprolin	0.02-0.250
195.	Oxycarboxin	0.02-0.250
196.	Oxydemeton- methyl (sum of oxydemeton methyl and demetonS-methylsulfone expressed as oxydemeton-methyl)	0.02-0.250
197.	Oxyfluorfen	0.02-0.250
198.	Paclobutrazol (sum of constituent isomers)	0.02-0.250
199.	Paraquat	0.02-0.250
200.	Parathion - methyl (sum of Parathion-methyl and paraoxon- methyl expressed as Parathion methyl)	0.02-0.250
201.	Parathion ethyl	0.02-0.250
202.	Penconazole	0.02-0.250
203.	Pencycuron	0.02-0.250
204.	Pendimethalin	0.02-0.250
205.	Penoxsulam	0.02-0.250
206.	Permethrin (sum of isomers)	0.02-0.250
207.	Phenthoate	0.02-0.250
208.	Phorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)	0.02-0.250
209.	Phosalone	0.02-0.250
210.	Phosmet	0.02-0.250
211.	Phosphamidon	0.02-0.250
212.	Picarbutrazox	0.02-0.250
213.	Picoxystrobin	0.02-0.250
214.	Pinoxaden (Sum of M4 and M6 (both free and conjugated), expressed as pinoxaden (R),(A))	0.02-0.250
215.	Pirimiphos-methyl	0.02-0.250
216.	Polyoxin D zinc salt	0.02-0.250
217.	Pretilachlor	0.02-0.250
218.	Profenophos	0.02-0.250
219.	Propamocarb (sum of propamocarb and its salt expressed as propamocarb)	0.02-0.250
220.	Propanil	0.02-0.250
221.	Propargite	0.02-0.250

Sr. No.	Name of Chemicals/Pesticides	PT Range (mg kg ⁻¹)
222.	Propetamphos	0.02-0.250
223.	Propiconazole (sum of isomers) (F)	0.02-0.250
224.	Propineb (expressed as propilendiamine)	0.02-0.250
225.	Propoxur	0.02-0.250
226.	Pydiflumetofen	0.02-0.250
227.	Pymetrozine	0.02-0.250
228.	Pyraclostrobin	0.02-0.250
229.	Pyrazosulfuron-ethyl	0.02-0.250
230.	Pyridaben	0.02-0.250
231.	Pyridalyl	0.02-0.250
232.	Pyriproxyfen	0.02-0.250
233.	Pyrithiobac-sodium	0.02-0.250
234.	Pyroxasulfone	0.02-0.250
235.	Quinalphos	0.02-0.250
236.	Simazine	0.02-0.250
237.	Spinetoram	0.02-0.250
238.	Spinosad (sum of Spinosyn A+D)	0.02-0.250
239.	Spirodiclofen	0.02-0.250
240.	Spiromesifen	0.02-0.250
241.	Spirotetramat and spirotetramatenol (sum of), expressed as spirotetramat (R)	0.02-0.250
242.	Sulfentrazone	0.02-0.250
243.	Sulfosulfuron	0.02-0.250
244.	Sulfoxaflor (sum of isomers)	0.02-0.250
245.	tau-Fluvalinate	0.02-0.250
246.	Tebuconazole	0.02-0.250
247.	Teflubenzuron	0.02-0.250
248.	Tembotrione (Sum of parent tembotrione (AE 0172747) and its metabolite M5 (4,6-dihydroxy tembotrione), expressed as tembotrione) (R)	0.02-0.250
249.	Temephos	0.02-0.250
250.	Tetraconazole	0.02-0.250
251.	Thiabendazole	0.02-0.250
252.	Thiacloprid	0.02-0.250
253.	Thiamethoxam	0.02-0.250
254.	Thifluzamide	0.02-0.250
255.	Thiobencarb (4-chlorobenzyl methyl sulfone) (A)	0.02-0.250
256.	Thiocyclam	0.02-0.250
257.	Thiodicarb	0.02-0.250
258.	Thiometon	0.02-0.250
259.	Thiophanate-methyl	0.02-0.250
260.	Tolfenpyrad	0.02-0.250
261.	Topramezone	0.02-0.250
262.	Transfluthrin	0.02-0.250
263.	Triadimefon	0.02-0.250
264.	Triadimenol (any ratio of constituent isomers)	0.02-0.250

Sr. No.	Name of Chemicals/Pesticides	PT Range (mg kg⁻¹)
265.	Triafamone	0.02-0.250
266.	Tri-allate	0.02-0.250
267.	Triasulfuron	0.02-0.250
268.	Triazophos	0.02-0.250
269.	Trichlorfon	0.02-0.250
270.	Tricyclazole	0.02-0.250
271.	Tridemorph	0.02-0.250
272.	Trifloxystrobin	0.02-0.250
273.	Triflumezopyrim	0.02-0.250
274.	Trifluralin	0.02-0.250
275.	Uracil	0.02-0.250
276.	Valifenalate	0.02-0.250
277.	Zoxamide (sum of constituent isomers)	0.02-0.250