

**National Referral Laboratory**  
**ICAR-National Research Centre for Grapes, Manjri farm, Pune 412307**

**TARGET LIST OF ANALYTES**

Name of Chemicals/Pesticides	
1.	<b>4-bromo-2-chlorophenol</b>
2.	<b>Abamectin (sum of avermectin B1a, avermectinB1b and delta-8,9 isomer of avermectin B1a)</b>
3.	<b>Acephate</b>
4.	<b>Acetamiprid</b>
5.	<b>Alachlor</b>
6.	<b>Aldrin (Aldrin and dieldrin combined expressed as dieldrin)</b>
7.	<b>Allethrin and Bioallethrin</b>
8.	<b>Ametoctradin</b>
9.	<b>Atrazine</b>
10.	<b>Azoxystrobin</b>
11.	<b>Benalaxyl including other mixtures of constituent isomers including Benalaxyl-M (sum of isomers)</b>
12.	<b>Bendiocarb</b>
13.	<b>Bifenazate</b>
14.	<b>Bifenthrin</b>
15.	<b>Bitertanol</b>
16.	<b>Boscalid</b>
17.	<b>Buprofezin</b>
18.	<b>Butachlor</b>
19.	<b>Carbaryl</b>
20.	<b>Carbendazim (including Benomyl)</b>
21.	<b>Carbofuran</b>
22.	<b>Carboxin</b>
23.	<b>Cartap hydrochloride</b>
24.	<b>Chlorantraniliprole</b>
25.	<b>Chlordane (<i>cis &amp; trans</i>)</b>
26.	<b>Chlorfenapyr</b>
27.	<b>Chlorfenvinphos</b>
28.	<b>Chlorfluazuron</b>
29.	<b>Chlorothalonil</b>
30.	<b>Chlorpropham</b>
31.	<b>Chlorpyrifos</b>
32.	<b>Chlorpyrifos methyl</b>
33.	<b>Cyantraniliprole</b>
34.	<b>Cyazofamid</b>
35.	<b>Cyflumetofen</b>
36.	<b>Cyfluthrin (including other mixtures of constituent isomers sum of isomers)</b>
37.	<b>Cymoxanil</b>
38.	<b>Cypermethrin (including other mixtures of constituent isomers sum of isomers)</b>
39.	<b>Dazomet (Methylisothiocyanate resulting from the use of Dazomet and metam)</b>
40.	<b>DDT (all isomers, sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE (DDD) expressed as DDT)</b>
41.	<b>Deltamethrin</b>
42.	<b>Diafenthifuron</b>
43.	<b>Diazinon</b>

Name of Chemicals/Pesticides	
44.	Dichlorvos
45.	Dicofol (sum of p, p' and o,p' isomers)
46.	Difenoconazole
47.	Diflubenzuron
48.	Dimethoate
49.	Omethoate
50.	Dimethomorph
51.	Dinotefuran
52.	Dithianon
53.	Diuron (Diuron including all components containing 3,4-dichloroaniline moiety expressed as 3,4-dichloroaniline)
54.	Dodine
55.	Edifenphos
56.	Emamectin Benzoate
57.	Endosulphan (All isomers, sum of <i>alpha</i> - and <i>beta</i> -isomers and endosulphan sulphate expressed as endosulphan)
58.	Endrin
59.	Epoxiconazole
60.	Ethion
61.	Ethiprole
62.	Ethofenprox (Etofenprox)
63.	Etoxazole
64.	Etrimfos
65.	Famoxadone
66.	Fenamidone
67.	Fenarimol
68.	Fenazaquin
69.	Fenhexamid
70.	Fenitrothion
71.	Fenobucarb
72.	Fenpropathrin
73.	Fenpyroximate
74.	Fenthion (fenthion and its oxygen analogue, their sulfoxides and sulfone expressed as parent)
75.	Fenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate) (F) (R)
76.	Fipronil (sum of fipronil + sulfone metabolite (MB46136) expressed as fipronil)
77.	Fluazifop-P (sum of all the constituent isomers of fluazifop, its esters and its conjugates, expressed as fluazifop)
78.	Flubendiamide
79.	Flufenacet (sum of all compounds containing the N fluorophenyl-N-isopropyl moiety expressed as flufenacet equivalent)
80.	Flufenoxuron
81.	Flufenzine
82.	Fluopicolide
83.	Fluopyram
84.	Flusilazole
85.	Fluxapyroxad
86.	HCH (sum of isomers, except the <i>gamma</i> isomer)
87.	Heptachlor (sum of heptachlor and heptachlor epoxide)

Name of Chemicals/Pesticides	
<b>expressed as heptachlor)</b>	
88.	<b>Hexaconazole</b>
89.	<b>Hexythiazox</b>
90.	<b>Imidacloprid</b>
91.	<b>Indoxacarb (sum of R and S isomers)</b>
92.	<b>Iodosulfuron-methyl (idosulfuron-methyl including salts, expressed as iodosulfuron-methyl)</b>
93.	<b>Iprobenphos</b>
94.	<b>Iprodione</b>
95.	<b>Iprotovalicarb</b>
96.	<b>Isoprothiolane</b>
97.	<b>Isoproturon</b>
98.	<b>Kresoxim methyl</b>
99.	<b>Lambda-cyhalothrin</b>
100.	<b>Lindane (<i>gamma</i>-HCH)</b>
101.	<b>Linuron</b>
102.	<b>Lufenuron</b>
103.	<b>Malathion (sum of malathion and malaoxon expressed as malathion)</b>
104.	<b>Mandipropamid</b>
105.	<b>Metalaxyll and metalaxyl-M (metalaxyll including other mixtures of constituent isomers including metalaxyll-M (sum of isomers))</b>
106.	<b>Methamidophos</b>
107.	<b>Methomyl and Thiodicarb (sum of methomyl and thiodicarb expressed as methomyl)</b>
108.	<b>Metolachlor and S-metolachlor (metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers))</b>
109.	<b>Metrafenone</b>
110.	<b>Metribuzin</b>
111.	<b>Milbemectin (sum of milbemycin A4 and milbemycin A3, expressed as milbemectin)</b>
112.	<b>Monocrotophos</b>
113.	<b>Myclobutanil</b>
114.	<b>Novaluron</b>
115.	<b>Oxadiazon</b>
116.	<b>Oxycarboxin</b>
117.	<b>Oxydemeton- methyl (sum of oxydemeton methyl and demeton-S-methylsulfone expressed as oxydemeton methyl)</b>
118.	<b>Oxyfluorfen</b>
119.	<b>Paclobutrazol</b>
120.	<b>Parathion methyl (sum of Parathion methyl and paraoxon methyl expressed as Parathion methyl)</b>
121.	<b>Parathion ethyl</b>
122.	<b>Penconazole</b>
123.	<b>Pencycuron</b>
124.	<b>Pendimethalin</b>
125.	<b>Permethrin (sum of isomers)</b>
126.	<b>Phenthioate</b>
127.	<b>Phorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)</b>

Name of Chemicals/Pesticides	
128.	<b>Phosalone</b>
129.	<b>Phosphamidon</b>
130.	<b>Picoxystrobin</b>
131.	<b>Pirimiphos-methyl</b>
132.	<b>Profenophos</b>
133.	<b>Propamocarb (sum of propamocarb and its salt expressed as propamocarb)</b>
134.	<b>Propanil</b>
135.	<b>Propargite</b>
136.	<b>Propetamphos</b>
137.	<b>Propiconazole</b>
138.	<b>Propoxur</b>
139.	<b>Pymetrozine</b>
140.	<b>Pyraclostrobin</b>
141.	<b>Pyridaben</b>
142.	<b>Pyriproxyfen</b>
143.	<b>Quinalphos</b>
144.	<b>Simazine</b>
145.	<b>Spinetoram</b>
146.	<b>Spinosad (sum of Spinosyn A+D)</b>
147.	<b>Spirodiclofen</b>
148.	<b>Spiromesifen</b>
149.	<b>Spirotetramat and its 4 metabolites BYI08330-enol, BYI08330-ketohydroxy, BYI08330-monohydroxy, and BYI08330 enol-glucoside, expressed as spirotetramat (R)</b>
150.	<b>tau- Fluvalinate</b>
151.	<b>Tebuconazole</b>
152.	<b>Temephos</b>
153.	<b>Tetraconazole</b>
154.	<b>Thiabendazole</b>
155.	<b>Thiachlorprid</b>
156.	<b>Thiamethoxam (sum of thiamethoxam and clothianidin expressed as thiamethoxam)</b>
157.	<b>Thiobencarb</b>
158.	<b>Thiometon</b>
159.	<b>Thiocyclam</b>
160.	<b>Thiophanate-methyl</b>
161.	<b>Tolfenpyrad</b>
162.	<b>Transfluthrin</b>
163.	<b>Triadimefon (sum of triadimefon and triadimenol)</b>
164.	<b>Triazophos</b>
165.	<b>Trichlorfon</b>
166.	<b>Tricyclazole</b>
167.	<b>Tridemorph</b>
168.	<b>Trifloxystrobin</b>
169.	<b>Trifluralin</b>

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