



LC-MS/MS Method for 51 of Routine Monitoring Pesticides in Vegetables and Fruits Specified by Chinese Ministry of Agriculture

To ensure the safety of agricultural products, the Chinese Ministry of Agriculture has established a routine monitoring system to perform multiple analyses of pesticides in vegetables, fruits and other agricultural products. Among the 70 pesticides specified for the annual routine monitoring, 51 of them are suitable for LC-MS/MS analysis. An efficient high throughput LC-MS/MS method has been disclosed by Sciex for the 51 specified pesticides.

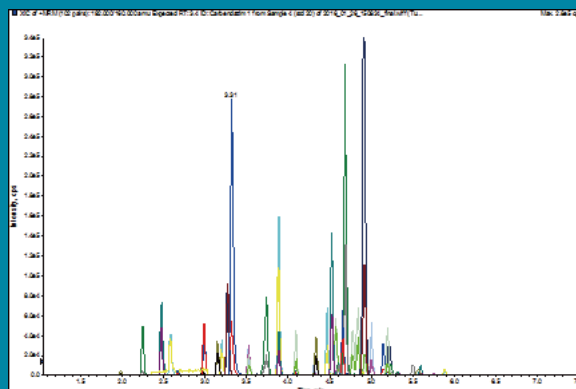
SCIEX is a global leader in pioneering mass spectrometry technologies, providing effective solutions for scientists and lab analysts around the world. As strategic partners, Alta Scientific (Tianjin) and A ChemTek (USA) have closely collaborated with Sciex to provide many First Standard[®] reference materials and standard solutions, including the pesticides mix solution used in this LC-MS/MS method.



Main Features of the Method

- Simultaneous detection of 51 pesticides, testing time as short as 7.5 minutes, significantly saved the analysis time.
- Use QuEChERS method (AOAC 2007.1) for sample treatment, clean sample with simple operation.
- Proved with the Triple QuadTM 3500 and 4500 Mass spectrometers for matrix of leeks, beans and strawberries, practical for real samples.
- Continuous analysis of 120 samples in 15 hours, give stable and reliable results.

The method includes sample treatment, standard curve, data collecting methods, quantitative analysis and report template. The Cliquant[®] Chinese software used allows for easy start and simple operation, direct sample analysis without method development, give expert results for beginners.



No.	Cat.No	Product	Specification
1	1ST27019-10M	51 Pesticides Mix Solution, 10ppm	Methanol, 1mL
2	1ST27019-100M	51 Pesticides Mix Solution, 100ppm	Methanol, 1mL

No.	Cat.No	Product	CAS
1	1ST21058	Carbendazim	10605-21-7
2	1ST20297	Acetamiprid	135410-20-7
3	1ST20298	Imidacloprid	138261-41-3
4	1ST20001	Chlorpyrifos	2921-88-2
5	1ST20350	Thiamethoxam	153719-23-4
6	1ST21145	Dimethomorph	110488-70-5
7	1ST21189	Difenoconazole	119446-68-3
8	1ST21226	Procymidone	32809-16-8
9	1ST20305	Fipronil	120068-37-3
10	1ST20438	Triazophos	24017-47-8
11	1ST20155	Profenofos	41198-08-7
12	1ST22249	Pendimethalin	40487-42-1
13	1ST20271	Carbofuran	1563-66-2
14	1ST20170	Phoxim	14816-18-3
15	1ST21164	Iprodione	36734-19-7
16	1ST20182	Trichlorfon	52-68-6
17	1ST21247	Prochloraz	67747-09-5
18	1ST20348	Chlorfluazuron	71422-67-8
19	1ST25000	Avermectin B1a	71751-41-2
20	1ST20167	Omethoate	1113-02-6
21	1ST20345	Diflubenzuron	35367-38-5
22	1ST20127	Isofenphos-methyl	99675-03-3
23	1ST20097	Dichlorvos	62-73-7
24	1ST20093	Methamidophos	10265-92-6
25	1ST20449	Methomyl	16752-77-5
26	1ST20144	Acephate	30560-19-1
27	1ST21161	Pyrimethanil	53112-28-0
28	1ST20277	Carbaryl	63-25-2
29	1ST20273	Aldicarb-sulfoxid	1646-87-3
30	1ST20375	Aldicarb	116-06-3
31	1ST20098	Dimethoate	60-51-5
32	1ST20259	3-Hydroxycarbofuran	16655-82-6
33	1ST20266	Aldicarb Sulfone	1646-88-4
34	1ST20124	Phorate	298-02-2
35	1ST20140	Parathion-methyl	298-00-0
36	1ST20111	Fenitrothion	122-14-5
37	1ST20065	Fenthion	55-38-9
38	1ST20173	Isocarbophos	24353-61-5
39	1ST20434	Parathion	56-38-2
40	1ST21202	Triadimefon	43121-43-3
41	1ST20094	Diazinon	333-41-5
42	1ST20349	Chlorbenzuron	57160-47-1
43	1ST20189	Phosmet	732-11-6
44	1ST20168	Malathion	121-75-5
45	1ST20406	Pyridaben	96489-71-3
46	1ST20172	Phosalone	2310-17-0
47	1ST21157	Azoxystrobin	131860-33-8
48	1ST20288	Emamectin Benzoate	155569-91-8
49	1ST20222	Fenpropathrin	39515-41-8
50	1ST20210	Bifenthrin	82657-04-3
51	1ST20396	Chlorfenapyr	122453-73-0