



### Flexible Pesticide Testing. Complete Transparency.

Pesticide residue testing is a critical part of botanical contaminant screening and integral part of producing high quality supplements.

Alkemist believes flexibility should never come at the expense of transparency. We offer multiple pesticide testing options aligned with USP <561> Articles of Botanical Origin guidance, including calculations for USP <565> botanical extracts.

Our testing options include:

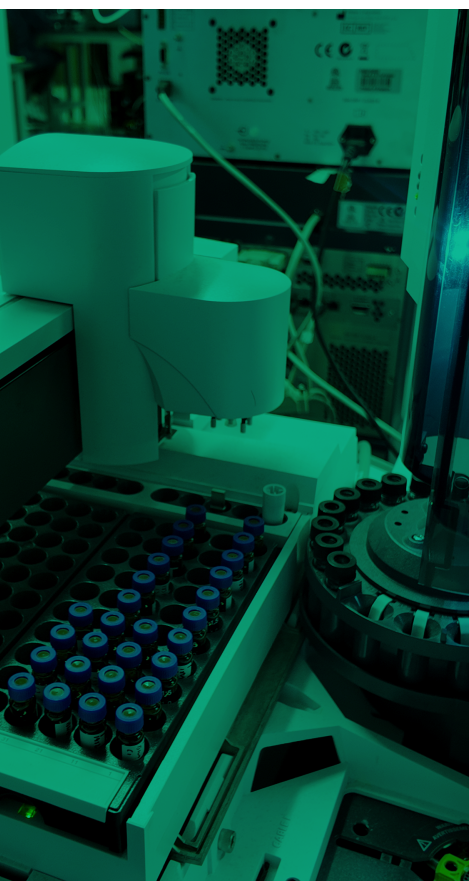
- **Full USP panel** covering all 70 pesticide compounds and groupings.
- **Modified panel** that omits inorganic bromide and dithiocarbamates (reported as carbon disulfide).
- **Custom panels** of 5 analytes designed to meet your specific requirements

Be careful with the term “modified” as its meaning can vary between labs which is why we clearly define exactly what is included and excluded in our panels.

Whether you need complete USP coverage, a modified panel, or a customized solution, you'll always know exactly what you're getting so you can make informed quality and compliance decisions.

|                                                                             | Full USP<br><561> | Modified<br><561> |
|-----------------------------------------------------------------------------|-------------------|-------------------|
| Acephate                                                                    | ✓                 | ✓                 |
| Alachlor                                                                    | ✓                 | ✓                 |
| Aldrin and dieldrin                                                         | ✓                 | ✓                 |
| Azinphos-ethyl                                                              | ✓                 | ✓                 |
| Azinphos-methyl                                                             | ✓                 | ✓                 |
| Bromide, inorganic (calculated as bromide ion)                              | ✓                 | ✗                 |
| Bromophos-ethyl                                                             | ✓                 | ✓                 |
| Bromophos-methyl                                                            | ✓                 | ✓                 |
| Bromopropylate                                                              | ✓                 | ✓                 |
| Chlordane (sum of cis-, trans-, & oxychlordane)                             | ✓                 | ✓                 |
| Chlorfenvinphos                                                             | ✓                 | ✓                 |
| Chlorpyrifos-ethyl                                                          | ✓                 | ✓                 |
| Chlorpyrifos-methyl                                                         | ✓                 | ✓                 |
| Chlorthal-dimethyl                                                          | ✓                 | ✓                 |
| Cyfluthrin                                                                  | ✓                 | ✓                 |
| λ-Cyhalothrin                                                               | ✓                 | ✓                 |
| Cypermethrin and isomers                                                    | ✓                 | ✓                 |
| DDT (sum of o,p'-DDE, p,p'-DDE, o,p'-DDT, p,p'-DDT, o,p'-TDE, and p,p'-TDE) | ✓                 | ✓                 |
| Deltamethrin                                                                | ✓                 | ✓                 |
| Diazinon                                                                    | ✓                 | ✓                 |
| Dichlofluanid                                                               | ✓                 | ✓                 |
| Dichlorvos                                                                  | ✓                 | ✓                 |
| Dicofol                                                                     | ✓                 | ✓                 |
| Dimethoate and omethoate                                                    | ✓                 | ✓                 |
| Dithiocarbamates (expressed as CS <sub>2</sub> )                            | ✓                 | ✗                 |
| Endosulfan (sum of isomers & endosulfan sulphate)                           | ✓                 | ✓                 |
| Endrin                                                                      | ✓                 | ✓                 |
| Ethion                                                                      | ✓                 | ✓                 |
| Etriphos                                                                    | ✓                 | ✓                 |
| Fenchlorophos (sum of fenchlorophos & fenchlorophos-oxon)                   | ✓                 | ✓                 |

CONTINUED



|                                                                                                                                   | Full USP<br><561> | Modified<br><561> |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|
| Fenitrothion                                                                                                                      | ✓                 | ✓                 |
| Fenpropathrin                                                                                                                     | ✓                 | ✓                 |
| Fensulfothion (sum of fensulfothion, fensulfothion-oxon, fensulfothion-oxon sulfone, & fensulfothion sulfone)                     | ✓                 | ✓                 |
| Fenthion (sum of fenthion, fenthion-oxon, fenthion-oxon sulfone, fenthion-oxon sulfoxide, fenthion sulfone, & fenthion-sulfoxide) | ✓                 | ✓                 |
| Fenvalerate                                                                                                                       | ✓                 | ✓                 |
| Flucythrinate                                                                                                                     | ✓                 | ✓                 |
| τ-Fluvalinate                                                                                                                     | ✓                 | ✓                 |
| Fonophos                                                                                                                          | ✓                 | ✓                 |
| Heptachlor (sum of heptachlor, cis-heptachlorepoxyde, & trans heptachlorepoxyde)                                                  | ✓                 | ✓                 |
| Hexachlorbenzene                                                                                                                  | ✓                 | ✓                 |
| Hexachlorocyclohexane (sum of isomers α-, β-, δ-, and ε-)                                                                         | ✓                 | ✓                 |
| Lindan (γ-hexachlorocyclohexane)                                                                                                  | ✓                 | ✓                 |
| Malathion and malaoxon                                                                                                            | ✓                 | ✓                 |
| Mecarbam                                                                                                                          | ✓                 | ✓                 |
| Methacriphos                                                                                                                      | ✓                 | ✓                 |
| Methamidophos                                                                                                                     | ✓                 | ✓                 |
| Methidathion                                                                                                                      | ✓                 | ✓                 |
| Methoxychlor                                                                                                                      | ✓                 | ✓                 |
| Mirex                                                                                                                             | ✓                 | ✓                 |
| Monocrotophos                                                                                                                     | ✓                 | ✓                 |
| Parathion-ethyl and paraoxon-ethyl                                                                                                | ✓                 | ✓                 |
| Parathion-methyl and paraoxon-methyl                                                                                              | ✓                 | ✓                 |
| Pendimethalin                                                                                                                     | ✓                 | ✓                 |
| Pentachloranisole                                                                                                                 | ✓                 | ✓                 |
| Permethrin and isomers                                                                                                            | ✓                 | ✓                 |
| Phosalone                                                                                                                         | ✓                 | ✓                 |
| Phosmet                                                                                                                           | ✓                 | ✓                 |
| Piperonyl butoxide                                                                                                                | ✓                 | ✓                 |
| Pirimiphos-ethyl                                                                                                                  | ✓                 | ✓                 |
| Pirimiphos-methyl (sum of pirimiphos-methyl and N-desethyl-pirimiphos-methyl)                                                     | ✓                 | ✓                 |
| Procymidone                                                                                                                       | ✓                 | ✓                 |
| Profenophos                                                                                                                       | ✓                 | ✓                 |
| Prothiophos                                                                                                                       | ✓                 | ✓                 |
| Pyrethrum (sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I, and pyrethrin II)                                  | ✓                 | ✓                 |
| Quinalphos                                                                                                                        | ✓                 | ✓                 |
| Quintozene (sum of quintozene, pentachloraniline, & methyl pentachlorophenyl sulfide)                                             | ✓                 | ✓                 |
| S-421                                                                                                                             | ✓                 | ✓                 |
| Tecnazene                                                                                                                         | ✓                 | ✓                 |
| Tetradifon                                                                                                                        | ✓                 | ✓                 |
| Vinclozolin                                                                                                                       | ✓                 | ✓                 |