



## USP <561> Standards

- United States Pharmacopeia (USP) General Chapter <561>
- Tests and specifications for the safety of botanical products



# USP <561> Standards

## United States Pharmacopeia (USP) General Chapter <561>

The United States Pharmacopeia (USP) creates standards for the monitoring of pharmaceutical and botanical products. General Chapter <561> Articles of Botanical Origin, outlines tests and specifications for the safety of botanical products. The chapter outlines sampling procedures and tests for general characteristics, such as for moisture, ash, starch and fiber. The chapter also describes methods for extractables and volatile compounds. In the interests of safety, USP <561> has procedures for the testing of mycotoxins and designates targeted pesticides. SPEX CertiPrep provides standards for testing of mycotoxins and pesticides under the General Chapter <561>.



Organic Certified  
Reference Materials



Designed for use with  
GC and GC/MS



Supplied with a  
Certificate of Analysis



ISO Accredited  
Standards

# USP <561> Standards

## USP <561> Mix A in Acetonitrile

Component	CAS #	Component	CAS #						
Dimethyl-p-Nitrophenylphosphate	950-35-6	Pirimiphos-ethyl	23505-41-1						
Imidan (Phosmet)	732-11-6	Pirimiphos-methyl	29232-93-7						
Methyl parathion	298-00-0	Procymidone	32809-16-8						
N-desethyl-primiphos-methyl	67018-59-1	Profenofos	41198-08-7						
Paraoxon	311-45-5	Prowl (Pendimethalin)	40487-42-1						
Pentachloroaniline	527-20-8	Pyrethrins (mix of isomers)	8003-34-7						
2,3,4,5,6-Pentachloroanisole	1825-21-4	Quinalphos	13593-03-8						
Pentachloronitrobenzene	82-68-8	1,2,4,5-Tetrachloro-3-nitrobenzene	117-18-0						
Permethrin	52645-53-1	Bis(2,3,3,3-tetrachloropropyl) ether (S421)	127-90-2						
Phosalone	2310-17-0	Tetradifon	116-29-0						
Piperonyl butoxide	51-03-6	Tokuthion/Prothiophos	34643-46-4						
<table border="1"> <thead> <tr> <th>Concentration</th> <th>Volume</th> <th>Part #</th> </tr> </thead> <tbody> <tr> <td>100 µg/mL</td> <td>1 mL</td> <td>USP-561-A</td> </tr> </tbody> </table>				Concentration	Volume	Part #	100 µg/mL	1 mL	USP-561-A
Concentration	Volume	Part #							
100 µg/mL	1 mL	USP-561-A							

## USP <561> Mix B in Acetonitrile

Component	CAS #	Component	CAS #						
alpha-BHC	319-84-6	Hexachlorobenzene	118-74-1						
beta-BHC	319-85-7	Malaoxon	1634-78-2						
delta-BHC	319-86-8	Malathion	121-75-5						
gamma-BHC	58-89-9	Methamidophos	10265-92-6						
Endosulfan sulfate	1031-07-8	Methidathion	950-37-8						
Endrin	72-20-8	Methoxychlor	72-43-5						
Etrimfos	38260-54-7	Mirex	2385-85-5						
tau-Fluvalinate	102851-06-9	Monocrotophos	6923-22-4						
Heptachlor	76-44-8	Parathion	56-38-2						
Heptachlor epoxide (Isomer A)	28044-83-9	Vinclozolin	50471-44-8						
Heptachlor epoxide (Isomer B)	1024-57-3								
<table border="1"> <thead> <tr> <th>Concentration</th> <th>Volume</th> <th>Part #</th> </tr> </thead> <tbody> <tr> <td>100 µg/mL</td> <td>1 mL</td> <td>USP-561-B</td> </tr> </tbody> </table>				Concentration	Volume	Part #	100 µg/mL	1 mL	USP-561-B
Concentration	Volume	Part #							
100 µg/mL	1 mL	USP-561-B							

# USP <561> Standards

## USP <561> Mix C in Acetonitrile

Component	CAS #	Component	CAS #						
Acarol (Bromopropylate)	18181-80-1	Cypermethrin	52315-07-8						
Azinphos-ethyl	2642-71-9	Dichlofluanid	1085-98-9						
Azinphos-Methyl	86-50-0	Dyfonate (Fonofos)	944-22-9						
Baythroid (Cyfluthrin)	68359-37-5	Ethion	563-12-2						
Bromophos-ethyl	4824-78-6	Fenchlorphos	299-84-3						
Bromophos-methyl	2104-96-3	Fenitrothion	122-14-5						
Chlorfenvinfos	470-90-6	Fensulfothion	115-90-2						
Chlorpyrifos-ethyl	39475-55-3	Fenthion	55-38-9						
Chlorpyrifos-methyl	5598-13-0	Kelthane (Dicofol)	115-32-2						
lambda-Cyhalothrin	91465-08-6	Sanmarton	51630-58-1						
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Concentration	Volume	Part #							
100 µg/mL	1 mL	USP-561-C							

## USP <561> Mix D in Acetonitrile

Component	CAS #	Component	CAS #						
Acephate	30560-19-1	p,p'-DDT	50-29-3						
Alachlor	15972-60-8	Deltamethrin	52918-63-5						
Aldrin	309-00-2	Diazinon	333-41-5						
alpha-Chlordane	5103-71-9	Dichlorvos	62-73-7						
gamma-Chlordane	5103-74-2	Dieldrin	60-57-1						
o,p'-DDD	53-19-0	Dimethoate	60-51-5						
o,p'-DDE	3424-82-6	Endosulfan I	959-98-8						
o,p'-DDT	789-02-6	Endosulfan II	33213-65-9						
p,p'-DDD	72-54-8	Omethoate	1113-02-6						
p,p'-DDE	72-55-9	Oxychlordane	27304-13-8						
<table border="1"> <thead> <tr> <th>Concentration</th> <th>Volume</th> <th>Part #</th> </tr> </thead> <tbody> <tr> <td>100 µg/mL</td> <td>1 mL</td> <td>USP-561-D</td> </tr> </tbody> </table>				Concentration	Volume	Part #	100 µg/mL	1 mL	USP-561-D
Concentration	Volume	Part #							
100 µg/mL	1 mL	USP-561-D							

# USP <561> Standards

USP <561> Mix E in LC/MS Acetonitrile			
Component	CAS #	Component	CAS #
Fenchlorophos-oxon	3983-45-7	Fenthion-oxon-sulfone	14086-35-2
Fenpropathrin	39515-41-8	Fenthion-oxon-sulfoxide	6552-13-2
Fensulfothion-oxon	6552-21-2	Fenthion-sulfone	3761-42-0
Fensulfothion-oxon-sulfone	6132-17-8	Flucythrinate	70124-77-5
Fensulfothion-sulfone	14255-72-2	Mecarbam	2595-54-2
Fenthion sulfoxide	3761-41-9	Methacrifos	62610-77-9
Fenthion-oxon	6552-12-1	Methyl pentachlorophenyl sulfide	1825-19-0
		<b>Concentration</b>	<b>Volume</b>
		100 µg/mL	1 mL
		<b>Part #</b>	
		USP-561-E	

USP <561> Mix F in Acetonitrile			
Component	CAS #		
Ziram	137-30-4		
		<b>Concentration</b>	<b>Volume</b>
		100 µg/mL	1 mL
		<b>Part #</b>	
		USP-561-F	

USP <561> Mix G in Acetonitrile			
Component	CAS #		
Epsilon-HCH	6108-10-7		
		<b>Concentration</b>	<b>Volume</b>
		100 µg/mL	1 mL
		<b>Part #</b>	
		USP-561-G	



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