

HHC Pinners

Sample ID: SA-231020-28763

Batch: SMHC1023

Type: Finished Product - Inhalable

Matrix: Plant - Preroll

Unit Mass (g):

Received: 10/24/2023

Completed: 11/07/2023

Client

 Proendo Wholesale Ireland
 Unit 4 1st Floor, 84 Strand St
 Skerries, Dublin K34 VW93
 Ireland

Summary

 Test
 Cannabinoids
 Moisture
 Terpenes

 Date Tested
 11/07/2023
 11/02/2023
 10/27/2023

 Status
 Tested
 Tested
 Tested

0.322 %

Total Δ9-THC

6.63 %

Total CBD

21.2 %

Total Cannabinoids

7.29 %

Moisture Content

Not Tested

Foreign Matter

Yes

 Internal Standard
 Normalization

Cannabinoids by HPLC-PDA and/or GC-MS/MS

Analyte	LOD (%)	LOQ (%)	Result (% dry)	Result (mg/g dry)
CBC	0.00095	0.0028	0.451	4.51
CBCA	0.00181	0.0054	0.231	2.31
CBCV	0.0006	0.0018	ND	ND
CBD	0.00081	0.0024	4.03	40.3
CBDA	0.00043	0.0013	2.96	29.6
CBDV	0.00061	0.0018	0.0469	0.469
CBDVA	0.00021	0.0006	0.0273	0.273
CBG	0.00057	0.0017	0.676	6.76
CBGA	0.00049	0.0015	5.56	55.6
CBL	0.00112	0.0033	ND	ND
CBLA	0.00124	0.0037	0.00447	0.0447
CBN	0.00056	0.0017	0.0917	0.917
CBNA	0.0006	0.0018	ND	ND
CBT	0.0018	0.0054	0.243	2.43
Δ8-THC	0.00104	0.0031	0.0520	0.520
Δ9-THC	0.00076	0.0023	0.257	2.57
Δ9-THCA	0.00084	0.0025	0.0740	0.740
Δ9-THCV	0.00069	0.0021	ND	ND
Δ9-THCVA	0.00062	0.0019	ND	ND
(6aR,9R,10aR)-HHC	0.00067	0.002	5.27	52.7
(6aR,9S,10aR)-HHC	0.00067	0.002	1.19	11.9
Total Δ9-THC			0.3219	3.22
Total			21.2	212

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA * 0.877 + Δ9-THC; Total CBD = CBDA * 0.877 + CBD;



 Generated By: Ryan Bellone
 CCO
 Date: 11/07/2023



 Tested By: Scott Caudill
 Laboratory Manager
 Date: 11/07/2023

 ISO/IEC 17025:2017 Accredited
 Accreditation #108651


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Terpenes by GC-MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Analyte	LOD (%)	LOQ (%)	Result (%)
α-Bisabolol	0.002	0.01	0.188	Limonene	0.002	0.01	<LOQ
(+)-Borneol	0.002	0.01	<LOQ	Linalool	0.002	0.01	0.0251
Camphene	0.002	0.01	ND	β-myrcene	0.002	0.01	<LOQ
Camphor	0.004	0.02	ND	Nerol	0.002	0.01	ND
3-Carene	0.002	0.01	ND	cis-Nerolidol	0.002	0.01	ND
β-Caryophyllene	0.002	0.01	0.0911	trans-Nerolidol	0.002	0.01	0.0152
Caryophyllene Oxide	0.002	0.01	0.0257	Ocimene	0.002	0.01	ND
α-Cedrene	0.002	0.01	ND	α-Phellandrene	0.002	0.01	ND
Cedrol	0.002	0.01	ND	α-Pinene	0.002	0.01	<LOQ
Eucalyptol	0.002	0.01	ND	β-Pinene	0.002	0.01	<LOQ
Fenchone	0.004	0.02	ND	Pulegone	0.002	0.01	ND
Fenchyl Alcohol	0.002	0.01	0.0113	Sabinene	0.002	0.01	ND
Geraniol	0.002	0.01	ND	Sabinene Hydrate	0.002	0.01	ND
Geranyl Acetate	0.002	0.01	ND	α-Terpinene	0.002	0.01	ND
Guaiol	0.002	0.01	0.0572	γ-Terpinene	0.002	0.01	ND
Hexahydrothymol	0.002	0.01	ND	α-Terpineol	0.001	0.005	0.00722
α-Humulene	0.002	0.01	0.0322	γ-Terpineol	0.001	0.005	ND
Isoborneol	0.002	0.01	ND	Terpinolene	0.002	0.01	ND
Isopulegol	0.002	0.01	ND	Valencene	0.002	0.01	ND
Total Terpenes (%)				0.473			

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



Sweet



Floral



Chamomile



Pepper



Hops


 Generated By: Ryan Bellone
 CCO

Date: 11/07/2023


 Tested By: Jasper van Heemst
 Principal Scientist
 Date: 10/27/2023


HHC Pinners

Sample ID: SA-231020-28763

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Matrix: Plant - Preroll

Unit Mass (g):

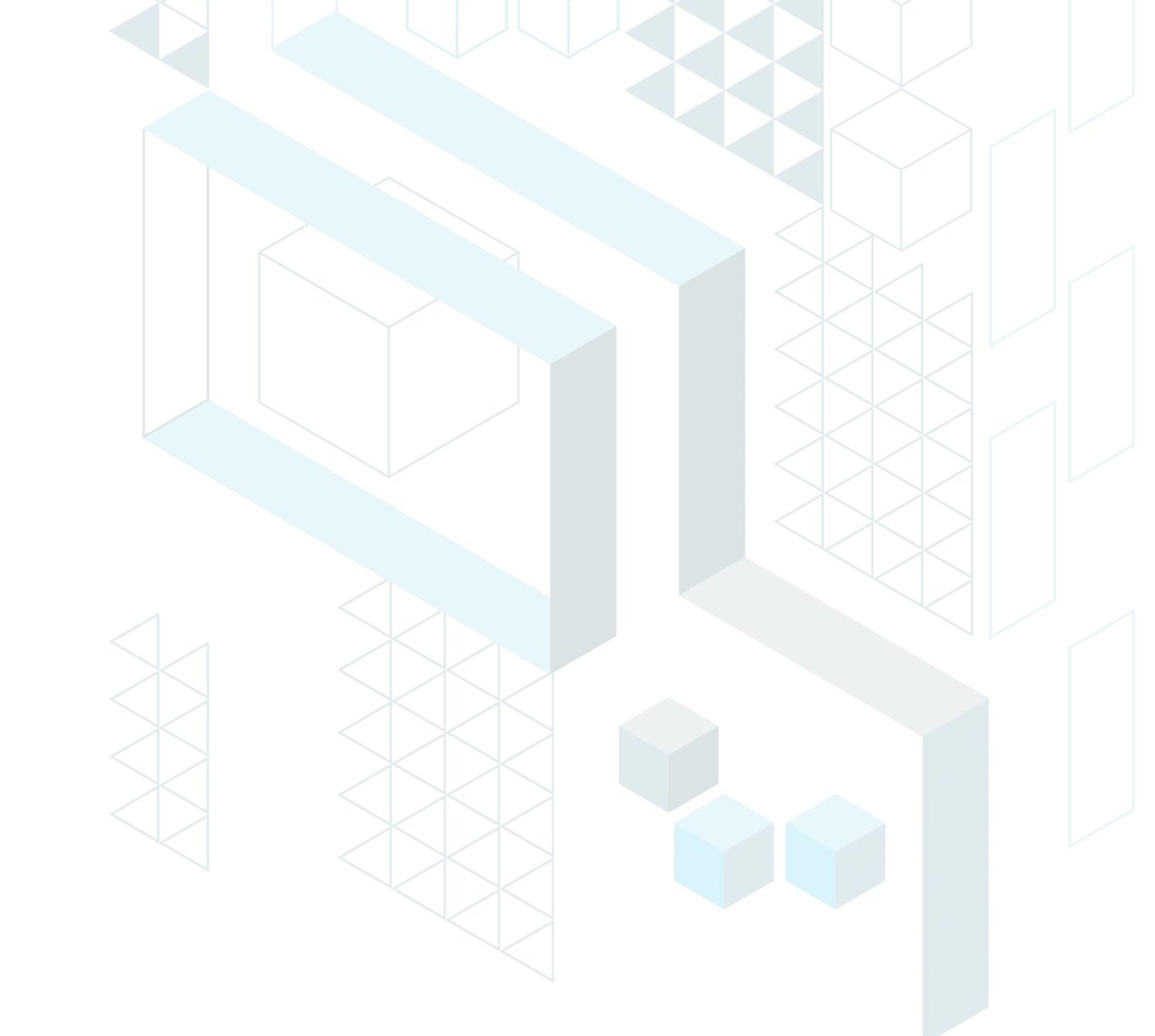
Received: 10/24/2023

Completed: 11/07/2023

Client

Proendo Wholesale Ireland
Unit 4 1st Floor, 84 Strand St
Skerries, Dublin K34 VW93
Ireland

Reporting Limit Appendix



HHC Smokables (SMHC1023)

Sample ID: SA-231020-28762

Batch: SMHC1023

Type: Finished Product - Inhalable

Matrix: Plant - Preroll

Unit Mass (g):

Received: 10/23/2023

Completed: 10/31/2023

Client

 Proendo Wholesale Ireland
 Unit 4 1st Floor, 84 Strand St
 Skerries, Dublin K34 VW93
 Ireland

Summary
Test

 Heavy Metals
 Microbials
 Mycotoxins
 Pesticides
 Residual Solvents

Date Tested

 10/25/2023
 10/26/2023
 10/31/2023
 10/31/2023
 10/25/2023

Status

 Passed
 Failed
 Passed
 Passed
 Passed

Not Tested

Total Δ9-THC

Not Tested

Total CBD

Not Tested

Total Cannabinoids

Not Tested

Moisture Content

Not Tested

Foreign Matter

Yes

 Internal Standard
 Normalization

Heavy Metals by ICP-MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
Arsenic	2	20	<RL	P
Cadmium	1	20	<RL	P
Lead	2	20	<RL	P
Mercury	12	50	ND	P

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Due to the lack of specialized testing facilities within Ireland and the EU, we ensure the quality of our products by using accredited, ISO/IEC 17025-certified third-party laboratories in the USA, which adhere to stringent testing standards. EU guidelines on microbials testing in smokable hemp products are unclear. For full transparency, our samples tested at 200 CFU/g (Colony Forming Units), which is below many U.S. state limits which often range up to 1000 CFU/g. We encourage you to make informed choices based on this information.



 Generated By: Ryan Bellone
 CCO

Date: 10/31/2023



 Tested By: Chris Farman
 Scientist
 Date: 10/25/2023


HHC Smokables (SMHC1023)

Sample ID: SA-231020-28762

Batch: SMHC1023

Type: Finished Product - Inhalable

Matrix: Plant - Preroll

Unit Mass (g):

Received: 10/23/2023

Completed: 10/31/2023

Client

 Proendo Wholesale Ireland
 Unit 4 1st Floor, 84 Strand St
 Skerries, Dublin K34 VW93
 Ireland

Pesticides by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F	Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
Abamectin	30	100	ND	P	Hexythiazox	30	100	ND	P
Acephate	30	100	ND	P	Imazalil	30	100	ND	P
Acetochlor	30	100	ND	P	Imidacloprid	30	100	ND	P
Acetamiprid	30	100	ND	P	Kresoxim methyl	30	100	ND	P
Aldicarb	30	100	ND	P	Malathion	30	100	ND	P
Azoxystrobin	30	100	ND	P	Metalaxyl	30	100	ND	P
Bifenazate	30	100	ND	P	Methiocarb	30	100	ND	P
Bifenthrin	30	100	ND	P	Methomyl	30	100	ND	P
Boscalid	30	100	ND	P	Mevinphos	30	100	ND	P
Carbaryl	30	100	ND	P	Myclobutanil	30	100	ND	P
Carbofuran	30	100	ND	P	Naled	30	100	ND	P
Chlorantraniliprole	30	100	ND	P	Oxamyl	30	100	ND	P
Chlorfenapyr	30	100	ND	P	Paclobutrazol	30	100	ND	P
Chlorpyrifos	30	100	ND	P	Permethrin	30	100	ND	P
Clofentezine	30	100	ND	P	Phosmet	30	100	ND	P
Coumaphos	30	100	ND	P	Piperonyl Butoxide	30	100	ND	P
Cypermethrin	30	100	ND	P	Prallethrin	30	100	ND	P
Daminozide	30	100	ND	P	Propiconazole	30	100	ND	P
Diazinon	30	100	ND	P	Propoxur	30	100	ND	P
Dichlorvos	30	100	ND	P	Pyrethrins	30	100	ND	P
Dimethoate	30	100	ND	P	Pyridaben	30	100	ND	P
Dimethomorph	30	100	ND	P	Spinetoram	30	100	ND	P
Ethoprophos	30	100	ND	P	Spinosad	30	100	ND	P
Etofenprox	30	100	ND	P	Spiromesifen	30	100	ND	P
Etoxazole	30	100	ND	P	Spirotetramat	30	100	ND	P
Fenhexamid	30	100	ND	P	Spiroxamine	30	100	ND	P
Fenoxycarb	30	100	ND	P	Tebuconazole	30	100	ND	P
Fenpyroximate	30	100	ND	P	Thiacloprid	30	100	ND	P
Fipronil	30	100	ND	P	Thiamethoxam	30	100	ND	P
Flonicamid	30	100	ND	P	Trifloxystrobin	30	100	ND	P
Fludioxonil	30	100	ND	P					

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit


 Generated By: Ryan Bellone
 CCO

Date: 10/31/2023


 Tested By: Jasper van Heemst
 Principal Scientist
 Date: 10/31/2023


HHC Smokables (SMHC1023)

Sample ID: SA-231020-28762

Batch: SMHC1023

Type: Finished Product - Inhalable

Matrix: Plant - Preroll

Unit Mass (g):

Received: 10/23/2023

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 Proendo Wholesale Ireland
 Unit 4 1st Floor, 84 Strand St
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 Ireland

Mycotoxins by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	P/F
B1	1	5	ND	P
B2	1	5	ND	P
G1	1	5	ND	P
G2	1	5	ND	P
Ochratoxin A	1	5	ND	P

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



 Generated By: Ryan Bellone
 CCO

Date: 10/31/2023



 Tested By: Jasper van Heemst
 Principal Scientist
 Date: 10/31/2023


HHC Smokables (SMHC1023)

Sample ID: SA-231020-28762

Batch: SMHC1023

Type: Finished Product - Inhalable

Matrix: Plant - Preroll

Unit Mass (g):

Received: 10/23/2023

Completed: 10/31/2023

Client

 Proendo Wholesale Ireland
 Unit 4 1st Floor, 84 Strand St
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 Ireland

Microbials by PCR and Plating

Analyte	LOD (CFU/g)	Result (CFU/g)	Result (Qualitative)	P/F
Total aerobic count	10	<RL		P
Total coliforms	10	200		F
Generic E. coli	10	ND		P
Salmonella spp.	1		Not Detected per 1 gram	P
Shiga-toxin producing E. coli (STEC)	1		Not Detected per 1 gram	P
Total yeast and mold count (TYMC)	10	<RL		P

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; CFU = Colony Forming Units; P = Pass; F = Fail; RL = Reporting Limit



 Generated By: Ryan Bellone
 CCO

Date: 10/31/2023



 Tested By: Matt Zachman
 Laboratory Technician
 Date: 10/26/2023


HHC Smokables (SMHC1023)

Sample ID: SA-231020-28762

Batch: SMHC1023

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Matrix: Plant - Preroll

Unit Mass (g):

Received: 10/23/2023

Completed: 10/31/2023

Client

 Proendo Wholesale Ireland
 Unit 4 1st Floor, 84 Strand St
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 Ireland

Residual Solvents by HS-GC-MS

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	P/F	Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	P/F
Acetone	167	500	ND	P	Ethylene Oxide	0.5	1	ND	P
Acetonitrile	14	41	ND	P	Heptane	167	500	ND	P
Benzene	0.5	1	ND	P	n-Hexane	10	29	ND	P
Butane	167	500	ND	P	Isobutane	167	500	ND	P
1-Butanol	167	500	ND	P	Isopropyl Acetate	167	500	ND	P
2-Butanol	167	500	ND	P	Isopropyl Alcohol	167	500	ND	P
2-Butanone	167	500	ND	P	Isopropylbenzene	167	500	ND	P
Chloroform	2	6	ND	P	Methanol	100	300	ND	P
Cyclohexane	129	388	ND	P	2-Methylbutane	10	29	ND	P
1,2-Dichloroethane	0.5	1	ND	P	Methylene Chloride	20	60	ND	P
1,2-Dimethoxyethane	4	10	ND	P	2-Methylpentane	10	29	ND	P
Dimethyl Sulfoxide	167	500	ND	P	3-Methylpentane	10	29	ND	P
N,N-Dimethylacetamide	37	109	ND	P	n-Pentane	167	500	ND	P
2,2-Dimethylbutane	10	29	ND	P	1-Pentanol	167	500	ND	P
2,3-Dimethylbutane	10	29	ND	P	n-Propane	167	500	ND	P
N,N-Dimethylformamide	30	88	ND	P	1-Propanol	167	500	ND	P
2,2-Dimethylpropane	167	500	ND	P	Pyridine	7	20	ND	P
1,4-Dioxane	13	38	ND	P	Tetrahydrofuran	24	72	ND	P
Ethanol	167	500	ND	P	Toluene	30	89	ND	P
2-Ethoxyethanol	6	16	ND	P	Trichloroethylene	3	8	ND	P
Ethyl Acetate	167	500	ND	P	Xylenes (o-, m-, and p-)	73	217	ND	P
Ethyl Ether	167	500	ND	P					
Ethylbenzene	3	7	ND	P					

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit



 Generated By: Ryan Bellone
 CCO
 Date: 10/31/2023



 Tested By: Kelsey Rogers
 Scientist
 Date: 10/25/2023


HHC Smokables (SMHC1023)

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Reporting Limit Appendix

Heavy Metals - Colorado CDPHE

Analyte	Limit (ppb)	Analyte	Limit (ppb)
Arsenic	1500	Lead	500
Cadmium	500	Mercury	1500

Microbials -

Analyte	Limit (CFU/g)	Analyte	Limit (CFU/g)
Total coliforms	100	Total aerobic count	10000
Total yeast and mold count (TYMC)	1000		

Residual Solvents - USP 467

Analyte	Limit (ppm)	Analyte	Limit (ppm)
Acetone	5000	Ethylene Oxide	1
Acetonitrile	410	Heptane	5000
Benzene	2	n-Hexane	290
Butane	5000	Isobutane	5000
1-Butanol	5000	Isopropyl Acetate	5000
2-Butanol	5000	Isopropyl Alcohol	5000
2-Butanone	5000	Isopropylbenzene	5000
Chloroform	60	Methanol	3000
Cyclohexane	3880	2-Methylbutane	290
1,2-Dichloroethane	5	Methylene Chloride	600
1,2-Dimethoxyethane	100	2-Methylpentane	290
Dimethyl Sulfoxide	5000	3-Methylpentane	290
N,N-Dimethylacetamide	1090	n-Pentane	5000
2,2-Dimethylbutane	290	1-Pentanol	5000
2,3-Dimethylbutane	290	n-Propane	5000
N,N-Dimethylformamide	880	1-Propanol	5000
2,2-Dimethylpropane	5000	Pyridine	200
1,4-Dioxane	380	Tetrahydrofuran	720
Ethanol	5000	Toluene	890
2-Ethoxyethanol	160	Trichloroethylene	80
Ethyl Acetate	5000	Xylenes (o-, m-, and p-)	2170
Ethyl Ether	5000		
Ethylbenzene	70		

Pesticides - CA DCC

Analyte	Limit (ppb)	Analyte	Limit (ppb)
Abamectin	300	Hexythiazox	2000
Acephate	5000	Imazalil	30
Acequinocyl	4000	Imidacloprid	3000
Acetamiprid	5000	Kresoxim methyl	1000
Aldicarb	30	Malathion	5000
Azoxystrobin	40000	Metalaxyl	15000
Bifenazate	5000	Methiocarb	30
Bifenthrin	500	Methomyl	100
Boscalid	10000	Mevinphos	30
Carbaryl	500	Myclobutanil	9000
Carbofuran	30	Naled	500
Chlorantraniliprole	40000	Oxamyl	200
Chlorfenapyr	30	Paclobutrazol	30
Chlorpyrifos	30	Permethrin	20000
Clofentezine	500	Phosmet	200
Coumaphos	30	Piperonyl Butoxide	8000
Cypermethrin	1000	Prallethrin	400
Daminozide	30	Propiconazole	20000
Diazinon	200	Propoxur	30
Dichlorvos	30	Pyrethrins	1000
Dimethoate	30	Pyridaben	3000
Dimethomorph	20000	Spinetoram	3000
Ethoprophos	30	Spinosad	3000
Etofenprox	30	Spromesifen	12000
Etoxazole	1500	Spirotetramat	13000
Fenhexamid	10000	Spiroxamine	30
Fenoxy carb	30	Tebuconazole	2000
Fenpyroximate	2000	Thiacloprid	30
Fipronil	30	Thiamethoxam	4500
Flonicamid	2000	Trifloxystrobin	30000
Fludioxonil	30000		

Mycotoxins - Colorado CDPHE

Analyte	Limit (ppm)	Analyte	Limit (ppm)
B1	5	B2	5
G1	5	G2	5
Ochratoxin A	5		

