

LABORATORY REPORT

SAMPLE NAME: Patchouli Pogostemon Cablin

BOTANICAL NAME: *Pogostemon cablin*

COMPANY NAME: ACHS

COMPANY LOT #: 19134R

Column: ZB5 (60 m length × 0.25 mm inner diameter × 0.25 μm film thickness)

Instrument: Shimadzu GCMS-QP2010 Ultra

Carrier gas: Helium 80 psi

Temperature ramp: 2 degrees Celsius per minute up to 260-degree Celsius

Split ratio: 30:1

Sample preparation: 5% w/v solution with Dichloromethane

Interpretation on sample:

Patchouli Pogostemon Cablin 19134R meets the expected profile of *Pogostemon cablin*.

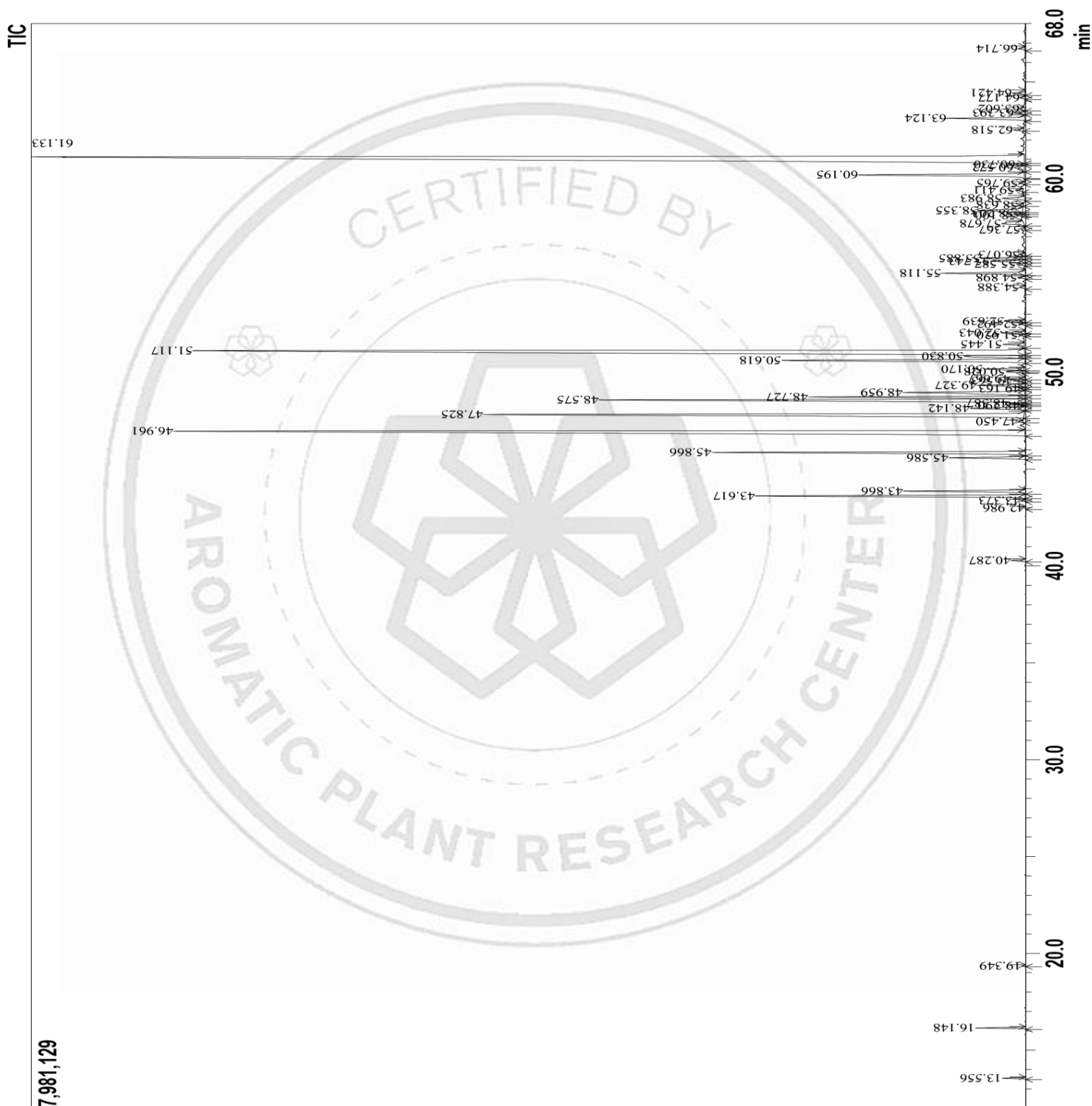
Analyzed by: Dr. Prabodh Satyal

Reviewed by: Ambika Poudel

Issued Date: 6/28/2019



APRC
Aromatic Plant Research Center





| RT (min) | Compound | Area % |
|----------|-----------------------------|--------|
| 13.556 | Pinene <alpha> | 0.16 |
| 16.148 | Pinene <beta> | 0.38 |
| 19.349 | Limonene | 0.02 |
| 40.287 | Elemene <delta> | 0.13 |
| 42.986 | Copaene <alpha> | 0.01 |
| 43.373 | Elemene<beta> | 0.04 |
| 43.617 | Patchoulene <beta> | 2.92 |
| 43.866 | Elemene <beta> | 1.28 |
| 45.586 | Cycloseychellene | 0.78 |
| 45.866 | Caryophyllene <beta> | 3.63 |
| 46.961 | Guaiene <alpha> | 15.16 |
| 47.45 | Myrtal-4(12)-ene | 0.05 |
| 47.825 | Seychellene | 7.89 |
| 48.142 | Humulene <alpha> | 0.65 |
| 48.29 | Patchoulene <isomer> | 0.04 |
| 48.387 | Aromanderene dehydro isomer | 0.17 |
| 48.575 | Patchoulene <alpha> | 5.47 |
| 48.727 | Caryophyllene<9-epi> isomer | 2.14 |
| 48.959 | Caryophyllene<9-epi> isomer | 1.64 |
| 49.163 | Chamigrene<beta.> | 0.04 |
| 49.327 | Gurjunene gamma | 0.52 |
| 49.563 | Unidentified | 0.13 |
| 49.667 | Germacrene D | 0.15 |
| 50.028 | Selinene <delta> | 0.16 |
| 50.17 | Selinene <beta> | 0.41 |
| 50.618 | Aciphyllene | 3.28 |
| 50.83 | Unidentified | 0.92 |
| 51.117 | Bulnesene <alpha> | 16.9 |
| 51.445 | Nootkatene | 0.25 |
| 51.92 | Vetivenene<gamma> | 0.06 |
| 52.043 | Panasinsen <(-).alpha> | 0.24 |
| 52.492 | Vetivenene | 0.06 |
| 52.639 | Nootkatene isomer | 0.2 |
| 54.388 | Germacrene B | 0.06 |
| 54.898 | Unidentified | 0.08 |
| 55.118 | D Norpatchoulenol | 0.91 |
| 55.587 | Unidentified | 0.1 |



| RT (min) | Compound | Area % |
|----------|---|--------|
| 55.743 | Caryophyllene oxide | 0.41 |
| 55.885 | Spathulenol | 0.5 |
| 56.073 | Unidentified | 0.07 |
| 57.367 | Humulene epoxide II | 0.04 |
| 57.678 | Sesquiterpene epoxide | 0.42 |
| 58.1 | Unidentified | 0.06 |
| 58.203 | Unidentified | 0.08 |
| 58.355 | Unidentified | 0.63 |
| 58.638 | Caryophylla-4(12),8(13)-dien-5-alpha-ol | 0.05 |
| 58.983 | Unidentified | 0.31 |
| 59.411 | trans-Guai-11-en-10-ol | 0.09 |
| 59.765 | Unidentified | 0.06 |
| 60.195 | Pogostol | 2.09 |
| 60.572 | Unidentified | 0.22 |
| 60.73 | Unidentified | 0.1 |
| 61.133 | Patchouli alcohol | 26.35 |
| 62.518 | Thujopsenol <cis> | 0.12 |
| 63.124 | Pogostone | 0.89 |
| 63.393 | Atlantone isomer | 0.12 |
| 63.602 | Unidentified | 0.08 |
| 64.177 | Zizanone | 0.05 |
| 64.421 | Unidentified | 0.15 |
| 66.714 | Squamulosone | 0.08 |
| | | 100.00 |

PHYSICAL CONSTANTS REPORT

| Organoleptic Information | |
|--------------------------|----------------------------------|
| Appearance | Clear, thin liquid |
| Color | Yellow |
| Odour | Earthy, grassy, slightly pungent |

| Physical Constants Information (at 20 °C) | |
|---|----------|
| Tests | Observed |
| Specific Gravity | 0.95383 |
| Refractive Index | 1.50798 |
| Optical Rotation | -47.24° |

Prepared by: Sujan Timsina
Reviewed by: Ambika Poudel

Date: 6/28/2019
Date: 6/28/2019



American College Of Healthcare Sciences
5940 SW Hood Ave
Portland, OR 97239

Report Number: P191528
Report Date: July 16, 2019
Client Project ID:

Client Sample ID: Patchouli essential oil 19134R
PAL Sample ID: P191528-01

Sample Date: 07/01/2019
Received Date: 07/03/2019
Extraction Date: 07/09/2019

Certificate of Analysis

| Analysis Date | Analyte | Amount Detected | LOQ (mg/kg) | Notes | Analysis Date | Analyte | Amount Detected | LOQ (mg/kg) | Notes |
|--------------------------------------|-----------------------|-----------------|-------------|-------|---------------|---------------------|-----------------|-------------|-------|
| Modified EPA 8270D (GC-MS/MS) | | | | | | | | | |
| 07/09/2019 | 2,6-Dichlorobenzamide | ND | 0.50 | | 07/09/2019 | a-BHC | ND | 0.50 | |
| 07/09/2019 | Acetochlor | ND | 0.50 | | 07/09/2019 | Alachlor | ND | 0.50 | |
| 07/09/2019 | Aldrin | ND | 0.50 | | 07/09/2019 | Ametryn | ND | 0.50 | |
| 07/09/2019 | b-BHC | ND | 0.50 | | 07/09/2019 | Benfluralin | ND | 0.50 | |
| 07/09/2019 | Bifenthrin | ND | 0.50 | | 07/09/2019 | Bromopropylate | ND | 0.50 | |
| 07/09/2019 | Buprofezin | ND | 0.50 | | 07/09/2019 | Captan | ND | 10 | |
| 07/09/2019 | Chlordane | ND | 0.50 | | 07/09/2019 | Chloroneb | ND | 0.50 | |
| 07/09/2019 | Chlorothalonil | ND | 0.50 | | 07/09/2019 | Chlorpropham | ND | 0.50 | |
| 07/09/2019 | Chlorpyrifos | ND | 0.50 | | 07/09/2019 | Chlorpyrifos-methyl | ND | 0.50 | |
| 07/09/2019 | cis-Nonachlor | ND | 0.50 | | 07/09/2019 | Cyfluthrin | ND | 2.5 | |
| 07/09/2019 | Cypermethrin | ND | 2.5 | | 07/09/2019 | Dacthal | ND | 0.50 | |
| 07/09/2019 | d-BHC | ND | 0.50 | | 07/09/2019 | Deltamethrin | ND | 2.5 | |
| 07/09/2019 | Diazinon | ND | 0.50 | | 07/09/2019 | Dichlobenil | ND | 0.50 | |
| 07/09/2019 | Dichlorofenthion | ND | 0.50 | | 07/09/2019 | Dichlorvos | ND | 0.50 | |
| 07/09/2019 | Diclofop-methyl | ND | 0.50 | | 07/09/2019 | Dicloran | ND | 2.5 | |
| 07/09/2019 | Dicofol | ND | 0.50 | | 07/09/2019 | Dieldrin | ND | 0.50 | |
| 07/09/2019 | Dimethenamid | ND | 0.50 | | 07/09/2019 | Diphenamid | ND | 0.50 | |
| 07/09/2019 | Diphenylamine | ND | 0.50 | | 07/09/2019 | Disulfoton | ND | 0.50 | |
| 07/09/2019 | Dithiopyr | ND | 0.50 | | 07/09/2019 | Endosulfan I | ND | 1.0 | |
| 07/09/2019 | Endosulfan II | ND | 1.0 | | 07/09/2019 | Endosulfan sulfate | ND | 1.0 | |
| 07/09/2019 | Endrin | ND | 0.50 | | 07/09/2019 | Endrin aldehyde | ND | 0.50 | |
| 07/09/2019 | Endrin ketone | ND | 0.50 | | 07/09/2019 | Esfenvalerate | ND | 0.50 | |
| 07/09/2019 | Ethalfuralin | ND | 0.50 | | 07/09/2019 | Ethofumesate | ND | 0.50 | |
| 07/09/2019 | Ethoprop | ND | 0.50 | | 07/09/2019 | Ethoxyquin | ND | 0.50 | |
| 07/09/2019 | Etoxazole | ND | 0.50 | | 07/09/2019 | Etridiazole | ND | 0.50 | |
| 07/09/2019 | Fenarimol | ND | 0.50 | | 07/09/2019 | Fenoxaprop-ethyl | ND | 0.50 | |
| 07/09/2019 | Fenvalerate | ND | 0.50 | | 07/09/2019 | Fipronil | ND | 0.50 | |
| 07/09/2019 | Fluazifop-p-butyl | ND | 0.50 | | 07/09/2019 | Fludioxonil | ND | 0.50 | |
| 07/09/2019 | Fluroxypyr-meptyl | ND | 0.50 | | 07/09/2019 | Flutolanil | ND | 0.50 | |
| 07/09/2019 | g-BHC | ND | 0.50 | | 07/09/2019 | Heptachlor | ND | 0.50 | |
| 07/09/2019 | Heptachlor epoxide | ND | 0.50 | | 07/09/2019 | Hexachlorobenzene | ND | 0.50 | |
| 07/09/2019 | Kresoxim-methyl | ND | 0.50 | | 07/09/2019 | lambda-Cyhalothrin | ND | 1.0 | |
| 07/09/2019 | Malathion | ND | 0.50 | | 07/09/2019 | Mefenoxam | ND | 0.50 | |
| 07/09/2019 | Methoxychlor | ND | 0.50 | | 07/09/2019 | Metolachlor | ND | 0.50 | |
| 07/09/2019 | MGK-264 | ND | 0.50 | | 07/09/2019 | Myclobutanil | ND | 0.50 | |
| 07/09/2019 | Napropamide | ND | 0.50 | | 07/09/2019 | o-Phenylphenol | ND | 0.50 | |
| 07/09/2019 | Oxadiazon | ND | 0.50 | | 07/09/2019 | Oxyfluorfen | ND | 0.50 | |



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Sample Date: 07/01/2019
Received Date: 07/03/2019
Extraction Date: 07/09/2019

Certificate of Analysis
(Continued)

| Analysis Date | Analyte | Amount Detected | LOQ (mg/kg) | Notes | Analysis Date | Analyte | Amount Detected | LOQ (mg/kg) | Notes |
|--|----------------------------------|-----------------|-------------|-------|---------------|---------------------|-----------------|-------------|-------|
| Modified EPA 8270D (GC-MS/MS) (Continued) | | | | | | | | | |
| 07/09/2019 | p,p'-DDD | ND | 0.50 | | 07/09/2019 | p,p'-DDE | ND | 0.50 | |
| 07/09/2019 | p,p'-DDT | ND | 0.50 | | 07/09/2019 | Parathion-methyl | ND | 0.50 | |
| 07/09/2019 | PCA | ND | 0.50 | | 07/09/2019 | PCB | ND | 0.50 | |
| 07/09/2019 | PCNB | ND | 0.50 | | 07/09/2019 | Pendimethalin | ND | 0.50 | |
| 07/09/2019 | Pentachlorophenyl methyl sulfide | ND | 0.50 | | 07/09/2019 | Permethrin | ND | 2.5 | |
| 07/09/2019 | Procyridone | ND | 0.50 | | 07/09/2019 | Prodiamine | ND | 0.50 | |
| 07/09/2019 | Pronamide | ND | 0.50 | | 07/09/2019 | Propachlor | ND | 0.50 | |
| 07/09/2019 | Pyriproxyfen | ND | 0.50 | | 07/09/2019 | Quinoxifen | ND | 0.50 | |
| 07/09/2019 | Spirodiclofen | ND | 0.50 | | 07/09/2019 | Tetraconazole | ND | 0.50 | |
| 07/09/2019 | Tetradifon | ND | 0.50 | | 07/09/2019 | trans-Nonachlor | ND | 0.50 | |
| 07/09/2019 | Trifluralin | ND | 0.50 | | 07/09/2019 | Vinclozalin | ND | 0.50 | |
| Modified EPA 8321B (HPLC MS-MS) | | | | | | | | | |
| 07/09/2019 | 3-Hydroxycarbofuran | ND | 0.50 | | 07/09/2019 | Abamectin | ND | 0.50 | |
| 07/09/2019 | Acephate | ND | 0.50 | | 07/09/2019 | Acetamiprid | ND | 0.50 | |
| 07/09/2019 | Acibenzolar-S-methyl | ND | 1.0 | | 07/09/2019 | Aldicarb | ND | 0.50 | |
| 07/09/2019 | Aldicarb Sulfone | ND | 0.50 | | 07/09/2019 | Aldicarb Sulfoxide | ND | 0.50 | |
| 07/09/2019 | Allethrin | ND | 0.50 | | 07/09/2019 | Ametoctradin | ND | 0.50 | |
| 07/09/2019 | Atrazine | ND | 0.50 | | 07/09/2019 | Azinphos-ethyl | ND | 0.50 | |
| 07/09/2019 | Azinphos-methyl | ND | 1.0 | | 07/09/2019 | Azoxystrobin | ND | 0.50 | |
| 07/09/2019 | Bendiocarb | ND | 0.50 | | 07/09/2019 | Bensulide | ND | 0.50 | |
| 07/09/2019 | Bifenazate | ND | 0.50 | | 07/09/2019 | Bitertanol | ND | 0.50 | |
| 07/09/2019 | Boscalid | ND | 0.50 | | 07/09/2019 | Bromacil | ND | 0.50 | |
| 07/09/2019 | Carbaryl | ND | 0.50 | | 07/09/2019 | Carbendazim | ND | 0.50 | |
| 07/09/2019 | Carbofuran | ND | 0.50 | | 07/09/2019 | Carfentrazone-ethyl | ND | 0.50 | |
| 07/09/2019 | Chlorantraniliprole | ND | 0.50 | | 07/09/2019 | Clethodim | ND | 1.0 | |
| 07/09/2019 | Clofentezine | ND | 0.50 | | 07/09/2019 | Clothianidin | ND | 0.50 | |
| 07/09/2019 | Cyanazine | ND | 0.50 | | 07/09/2019 | Cyantraniliprole | ND | 0.50 | |
| 07/09/2019 | Cyazofamid | ND | 0.50 | | 07/09/2019 | Cycloate | ND | 1.0 | |
| 07/09/2019 | Cyflufenamid | ND | 0.50 | | 07/09/2019 | Cyflumetofen | ND | 0.50 | |
| 07/09/2019 | Cymoxanil | ND | 0.50 | | 07/09/2019 | Cyprodinil | ND | 0.50 | |
| 07/09/2019 | Cyromazine | ND | 0.50 | | 07/09/2019 | DCEMU | ND | 0.50 | |
| 07/09/2019 | Diazoxon | ND | 0.50 | | 07/09/2019 | Difenoconazole | ND | 0.50 | |
| 07/09/2019 | Diflubenzuron | ND | 0.50 | | 07/09/2019 | Dimethoate | ND | 0.50 | |
| 07/09/2019 | Dimethomorph | ND | 0.50 | | 07/09/2019 | Dinotefuran | ND | 0.50 | |
| 07/09/2019 | Disulfoton sulfone | ND | 0.50 | | 07/09/2019 | Diuron | ND | 0.50 | |



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Certificate of Analysis
(Continued)

| Analysis Date | Analyte | Amount Detected | LOQ (mg/kg) | Notes | Analysis Date | Analyte | Amount Detected | LOQ (mg/kg) | Notes |
|--|----------------------|-----------------|-------------|-------|---------------|--------------------|-----------------|-------------|-------|
| Modified EPA 8321B (HPLC MS-MS) (Continued) | | | | | | | | | |
| 07/09/2019 | Dodine | ND | 0.50 | | 07/09/2019 | d-Phenothrin | ND | 0.50 | |
| 07/09/2019 | Emamectin Benzoate | ND | 0.50 | | 07/09/2019 | Ethion | ND | 0.50 | |
| 07/09/2019 | Famoxadone | ND | 0.50 | | 07/09/2019 | Famphur | ND | 0.50 | |
| 07/09/2019 | Fenamidone | ND | 0.50 | | 07/09/2019 | Fenamiphos sulfone | ND | 0.50 | |
| 07/09/2019 | Fenamiphos sulfoxide | ND | 0.50 | | 07/09/2019 | Fenazaquin | ND | 0.50 | |
| 07/09/2019 | Fenbuconazole | ND | 0.50 | | 07/09/2019 | Fenbutatin oxide | ND | 0.50 | |
| 07/09/2019 | Fenhexamid | ND | 0.50 | | 07/09/2019 | Fenobucarb | ND | 0.50 | |
| 07/09/2019 | Fenpropathrin | ND | 0.50 | | 07/09/2019 | Fenpyroximate | ND | 0.50 | |
| 07/09/2019 | Fenuron | ND | 0.50 | | 07/09/2019 | Flonicamid | ND | 0.50 | |
| 07/09/2019 | Fluazinam | ND | 0.50 | | 07/09/2019 | Flubendiamide | ND | 1.0 | |
| 07/09/2019 | Flumioxazin | ND | 0.50 | | 07/09/2019 | Fluometuron | ND | 0.50 | |
| 07/09/2019 | Fluopicolide | ND | 0.50 | | 07/09/2019 | Fluopyram | ND | 0.50 | |
| 07/09/2019 | Fluoxastrobin | ND | 0.50 | | 07/09/2019 | Flupyradifurone | ND | 0.50 | |
| 07/09/2019 | Fluridone | ND | 0.50 | | 07/09/2019 | Flutriafol | ND | 0.50 | |
| 07/09/2019 | Fluvalinate | ND | 0.50 | | 07/09/2019 | Fluxapyroxad | ND | 0.50 | |
| 07/09/2019 | Fonofos | ND | 1.0 | | 07/09/2019 | Formetanate HCl | ND | 0.50 | |
| 07/09/2019 | Hexaconazole | ND | 0.50 | | 07/09/2019 | Hexazinone | ND | 0.50 | |
| 07/09/2019 | Hexythiazox | ND | 0.50 | | 07/09/2019 | Imazalil | ND | 0.50 | |
| 07/09/2019 | Imidacloprid | ND | 0.50 | | 07/09/2019 | Indaziflam | ND | 0.50 | |
| 07/09/2019 | Indoxacarb | ND | 0.50 | | 07/09/2019 | Iprodione | ND | 2.5 | |
| 07/09/2019 | Isoxaben | ND | 0.50 | | 07/09/2019 | Linuron | ND | 0.50 | |
| 07/09/2019 | Malaoxon | ND | 0.50 | | 07/09/2019 | Mandipropamid | ND | 0.50 | |
| 07/09/2019 | Metconazole | ND | 0.50 | | 07/09/2019 | Methamidophos | ND | 1.0 | |
| 07/09/2019 | Methidathion | ND | 0.50 | | 07/09/2019 | Methiocarb | ND | 0.50 | |
| 07/09/2019 | Methomyl | ND | 0.50 | | 07/09/2019 | Methoxyfenozide | ND | 0.50 | |
| 07/09/2019 | Metrafenone | ND | 0.50 | | 07/09/2019 | Metribuzin | ND | 0.50 | |
| 07/09/2019 | Mevinphos | ND | 0.50 | | 07/09/2019 | Norflurazon | ND | 0.50 | |
| 07/09/2019 | Novaluron | ND | 0.50 | | 07/09/2019 | Omethoate | ND | 0.50 | |
| 07/09/2019 | Oryzalin | ND | 0.50 | | 07/09/2019 | Oxadixyl | ND | 0.50 | |
| 07/09/2019 | Oxamyl | ND | 0.50 | | 07/09/2019 | Oxydemeton-Methyl | ND | 0.50 | |
| 07/09/2019 | Penthiopyrad | ND | 0.50 | | 07/09/2019 | Phorate Sulfone | ND | 0.50 | |
| 07/09/2019 | Phorate Sulfoxide | ND | 0.50 | | 07/09/2019 | Phosalone | ND | 0.50 | |
| 07/09/2019 | Phosmet | ND | 0.50 | | 07/09/2019 | Phosphamidon | ND | 0.50 | |
| 07/09/2019 | Piperonyl Butoxide | ND | 0.50 | | 07/09/2019 | Pirimicarb | ND | 0.50 | |
| 07/09/2019 | Pirimiphos-methyl | ND | 0.50 | | 07/09/2019 | Prometon | ND | 0.50 | |
| 07/09/2019 | Prometryn | ND | 0.50 | | 07/09/2019 | Propargite | ND | 0.50 | |
| 07/09/2019 | Propazine | ND | 0.50 | | 07/09/2019 | Propiconazole | ND | 1.0 | |



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Certificate of Analysis
(Continued)

| Analysis Date | Analyte | Amount Detected | LOQ (mg/kg) | Notes | Analysis Date | Analyte | Amount Detected | LOQ (mg/kg) | Notes |
|--|-----------------|-----------------|-------------|-------|---------------|--------------------|-----------------|-------------|-------|
| Modified EPA 8321B (HPLC MS-MS) (Continued) | | | | | | | | | |
| 07/09/2019 | Prothioconazole | ND | 1.0 | | 07/09/2019 | Pymetrozine | ND | 0.50 | |
| 07/09/2019 | Pyraclostrobin | ND | 0.50 | | 07/09/2019 | Pyraflufen-ethyl | ND | 0.50 | |
| 07/09/2019 | Pyrethrin | ND | 2.5 | | 07/09/2019 | Pyridaben | ND | 0.50 | |
| 07/09/2019 | Pyrimethanil | ND | 0.50 | | 07/09/2019 | Rotenone | ND | 0.50 | |
| 07/09/2019 | Saflufenacil | ND | 0.50 | | 07/09/2019 | Sethoxydim | ND | 1.0 | |
| 07/09/2019 | Siduron | ND | 0.50 | | 07/09/2019 | Simazine | ND | 0.50 | |
| 07/09/2019 | Simetryn | ND | 0.50 | | 07/09/2019 | Spinetoram | ND | 0.50 | |
| 07/09/2019 | Spinosad | ND | 0.50 | | 07/09/2019 | Spiromesifen | ND | 1.0 | |
| 07/09/2019 | Spirotetramat | ND | 0.50 | | 07/09/2019 | Spiroxamine | ND | 0.50 | |
| 07/09/2019 | Sulfentrazone | ND | 0.50 | | 07/09/2019 | Sulfoxaflor | ND | 0.50 | |
| 07/09/2019 | Tebuconazole | ND | 0.50 | | 07/09/2019 | Tebufenozide | ND | 0.50 | |
| 07/09/2019 | Tebuthiuron | ND | 0.50 | | 07/09/2019 | Terbacil | ND | 0.50 | |
| 07/09/2019 | Terbutylazine | ND | 0.50 | | 07/09/2019 | Terbutryn | ND | 0.50 | |
| 07/09/2019 | Thiabendazole | ND | 0.50 | | 07/09/2019 | Thiacloprid | ND | 0.50 | |
| 07/09/2019 | Thiamethoxam | ND | 0.50 | | 07/09/2019 | Thiobencarb | ND | 0.50 | |
| 07/09/2019 | Thiodicarb | ND | 0.50 | | 07/09/2019 | Thiophanate methyl | ND | 0.50 | |
| 07/09/2019 | Tolfenpyrad | ND | 0.50 | | 07/09/2019 | Triadimefon | ND | 0.50 | |
| 07/09/2019 | Triadimenol | ND | 1.0 | | 07/09/2019 | Trifloxystrobin | ND | 0.50 | |
| 07/09/2019 | Triflumizole | ND | 0.50 | | | | | | |

Notes and Definitions

| <u>Notes</u> | <u>Definition</u> |
|--------------|---|
| LOQ | Limit of Quantitation |
| ND | Not Detected |
| * | Not included under current scope of accreditation |

The results contained in this report relate only to the items tested.
The results reflect the condition of the samples as received by PAL.
Samples will be stored for a minimum of 60 days after the final report is issued, as described in our Quality Manual.
Reports should not be reproduced, except in full, without written approval from PAL.
PAL is accredited to ISO/IEC 17025:2017 Standard, by PJLA, Accreditation #64422, Testing.