

|                             |  |             |            |                 |
|-----------------------------|--|-------------|------------|-----------------|
| <b>Echantillon n°</b>       | 370-2019-00036529                      | <b>Date</b> | 11/02/2019 | <b>Page 1/4</b> |
| <b>Rapport d'analyse n°</b> | AR-19-AA-039046-02 / 370-2019-00036529 |             |            |                 |

(\*ce bulletin annule et remplace le précédent rapport n° AR-19-AA-039046-01/370-2019-00036529 daté du 11/02/2019 qui doit être détruit)


**La miellerie de Macouria**

A l'attention de **Monsieur Nicolas HIBON**  
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**Coordinateur technique de votre dossier : Cécile Chabirand**

|                                       |  |                                  |            |
|---------------------------------------|--|----------------------------------|------------|
| <b>Notre référence :</b>              | 370-2019-00036529 / AR-19-AA-039046-02 | <b>Type :</b>                    | EX         |
| <b>Description de l'échantillon :</b> | Miel de Guyane 250g                    |                                  |            |
| <b>Conditionnement :</b>              | NonCommercial : 668g                   |                                  |            |
| <b>Date de réception :</b>            | 04/02/2019 08:50:00                    | <b>Date de mise en analyse :</b> | 05/02/2019 |
| <b>Prélèvement/Transport :</b>        | La Poste (Colissimo)                   |                                  |            |
| <b>Analyses demandées :</b>           | PSP10 : Pesticides dans le miel II     |                                  |            |

| Pesticides  | Résultats |
|---|-----------|
| <b>SP001 ZP Pesticides groupes OC, PY Méthode : ASU L 00.00-34:2010-09</b>                  |           |
| Pesticides recherchés   | <LOQ      |
| <b>SP004 ZP Pesticide organophosphorés Méthode : ASU L 00.00-34:2010-09</b>                 |           |
| Pesticides recherchés   | <LOQ      |
| <b>SPGH2 ZP Acaricides dans le miel (Quechers) Méthode : DIN EN 15662:2009-02</b>           |           |
| Pesticides recherchés   | <LOQ      |
| <b>SPGH3 ZP Acaricides dans le miel - S19 ECD Méthode : ASU L 00.00-34:2010-09</b>          |           |
| Pesticides recherchés   | <LOQ      |
| <b>SPGH4 ZP Acaricides dans le miel - S19 MSD Méthode : ASU L 00.00-34:2010-09</b>          |           |
| Pesticides recherchés   | <LOQ      |
| <b>SPGH5 ZP Acaricides dans le miel - S19 FPD Méthode : ASU L 00.00-34:2010-09</b>          |           |
| Pesticides recherchés   | <LOQ      |
| <b>ZP931 ZP Screening pesticides Quechers LC-MS/MS Méthode : DIN EN 15662:2009-02, mod.</b> |           |
| Pesticides recherchés   | <LOQ      |

**CONCLUSION**

Sur la base des analyses réalisées et des valeurs de référence en notre possession (normes, codes de pratique, littérature scientifique, résultats mesurés sur des produits de référence, etc.) :

Aux limites de quantification des méthodes mises en œuvre, aucun des paramètres recherchés n'a été observé.

**Liste des molécules recherchées et non détectées (\* = limite de quantification)**

| SP001                                | ZP  | Pesticides groupes OC, PY (LOQ* mg/kg) |
|--------------------------------------|---|--|
| 4,4-Dibromobenzophénone (0.005)      | Aclonifen (0.01)  | Acinathrine (0.01)                     |
| Béta-endosulfan (0.001)              | Bifénox (0.01)  | Bifenthrine (0.01)                     |
| Butraline (0.01)                     | Chlordane-cis (0.001)                                   | Chlordane-gamma (=bêta=trans) (0.001)  |
| Chloroneb (0.01)                     | Chlorothalonil (0.005)                                  | Chlorthal diméthyle (0.001)            |
| Cyphenothrine (0.01)                 | DDD, o,p (0.002)  | DDD, p,p' (0.002)                      |
| DDT,p,p (0.002)                      | Deltaméthrine (0.01)                                    | Diallat (0.05)                         |
| Dichlorobenzophénone, o,p- (0.005)   | Dichlorobenzophénone, p,p- (dégradation dicofo) (0.005) | Dicofof, o,p- (0.005)                  |
| Dinitramine (0.002)                  | Dinobuton (0.005)                                       | Dinocap (0.05)                         |
| Esfenvalerate (0.005)                | Ethalfuraline (0.002)                                   | Etridiazole (0.005)                    |
| Fenvalerate (RR-/SS-Isomère) (0.005) | Fenvalerate (RS-/SR-Isomère) (0.005)                    | Flubenzimine (0.002)                   |
| Fluorodifen (0.005)                  | Fluoroimide (0.01)                                      | Genite (0.005)                         |
|                                      |   | Halfenprox (0.01)                      |
|                                      |   | Aldrine (0.001)                        |
|                                      |   | Binapacryl (0.005)                     |
|                                      |   | Chlorfenapyr (0.005)                   |
|                                      |   | Cyfluthrine (0.01)                     |
|                                      |   | DDE, o,p' (0.002)                      |
|                                      |   | Dichlobénil (0.002)                    |
|                                      |   | Dicofof, p,p- (0.005)                  |
|                                      |   | Endosulfan alpha (0.001)               |
|                                      |   | Fenfluthrine (0.005)                   |
|                                      |   | Fluchloraline (0.002)                  |
|                                      |   | Haldol (0.001)                         |
|                                      |   | Benfluraline (0.001)                   |
|                                      |   | Bromocyclen (0.005)                    |
|                                      |   | Chlorfenprop-méthyl (0.005)            |
|                                      |   | Cyperméthrine (0.01)                   |
|                                      |   | DDE,p,p' (0.001)                       |
|                                      |   | Dichlone (0.01)                        |
|                                      |   | Dieldrine (0.001)                      |
|                                      |   | Endosulfan sulfate (0.002)             |
|                                      |   | Fenpropathrine (0.005)                 |
|                                      |   | Flucythrinate (0.01)                   |
|                                      |   | HCH Alpha (0.001)                      |
|                                      |   | Benzoylprop-ethyl (0.005)              |
|                                      |   | Bromoxynil-octanoate (0.005)           |
|                                      |   | Chlorfenson (0.005)                    |
|                                      |   | Cyperméthrine-alpha (0.01)             |
|                                      |   | DDT,o,p' (0.001)                       |
|                                      |   | Dichloran (0.001)                      |
|                                      |   | Dienochlor (0.005)                     |
|                                      |   | Endrine (0.002)                        |
|                                      |   | Fenson (0.005)                         |
|                                      |   | Flumetraline (0.002)                   |
|                                      |   | HCH Bêta (0.002)                       |

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| SP001   | ZP | Pesticides groupes OC, PY (LOQ* mg/kg)                     |   |   |  |  |
|---|----|--|---|---|--|--|
| HCH Delta (0.002)                                     |    | HCH, gamma - Lindane (0.001)                               | HCH-epsilon (0.002)                                     | Heptachlore (0.001)                         | Heptachlore époxyde cis (0.001)                | Heptachlore époxyde trans (0.001)                  |
| Hexachlorobenzène (HCB) (0.001)                       |    | Ioxynil-Octanoate (0.005)                                  | Isobenzane (0.001)                                      | Isodrine (0.001)                            | Isopropalin (0.002)                            | Kétoendrin-delta (0.005)                           |
| Lambda cyhalothrine (+ gamma-Cyhalothrin) (0.005)     |    | Méthoxychlor (0.005)                                       | Mirex (0.001)   | Nitrypyrine (0.005)                         |  | Nonachlor, trans- (0.002)                          |
| Nonachlor-cis (0.001)                                 |    | Octachlorostyrène (0.005)                                  | Oxychlorodane (0.001)                                   | Oxyfluorène (0.002)                         | Pendiméthaline (0.002)                         | Pentachloroaniline (0.001)                         |
| Pentachloroanisole (PCA) (0.001)                      |    | Pentachlorobenzène (0.002)                                 | Pentachlorothioanisole (0.002)                          | Perméthrine (0.01)                          | Plifenate (0.005)                              | Profluraline (0.001)                               |
| Quintozène (0.001)                                    |    | S 421 (0.005)  | Tau-fluvalinate (0.01)                                  | Tecnazène (0.001)                           | Téfluthrine (0.005)                            | Tétradifon (0.002)                                 |
| Tétrarasul (0.005)                                    |    | Toxaphène (camphéchlor) (0.04)                             | Tralométhrin (0.01)                                     | Transfluthrin (0.005)                       | Triallate (0.005)                              | Trichloronate (0.002)                              |
| Trifluraline (0.001)                                  |    |  |   |   |  |  |
| SP004   | ZP | Pesticide organophosphorés (LOQ* mg/kg)                    |   |   |  |  |
| Acéphate (0.01)                                       |    | Amidithion (0.01)  | Aspon (0.01)  | Athidathion (0.01)                          | Azaméthiphos (0.02)                            | Azinphos-ethyl (0.02)                              |
| Azinphos-méthyl (0.03)                                |    | Bomyl (0.01)   | Bromofenvinphos (0.01)                                  | Bromophos-ethyl (0.01)                      | Bromophos-méthyl (0.01)                        | Butamifos (0.01)                                   |
| Cadusaphos (0.01)                                     |    | Carbophenothion (0.01)                                     | Carbophénonthion-méthyl (0.01)                          | Chlorfenvinphos (0.01)                      | Chlorméphos (0.01)                             | Chlorpyrifos (-ethyl) (0.01)                       |
| Chlorpyrifos-méthyl (0.01)                            |    | Chlorthion (0.01)  | Chlorthiophos (0.01)                                    | Coumaphos (0.03)                            | Crotoxyphos (0.02)                             | Cruformate (0.01)                                  |
| Cyanofenphos (0.02)                                   |    | Cyanophos (0.01)   | Demeton-S-méthyl (0.01)                                 | Demeton-S-méthyl-sulfone (0.01)             | Demeton-S-sulfon (0.02)                        | Dialifos (0.05)                                    |
| Diazinon (0.01)                                       |    | Dicaphon (0.01)  | Dichlorofenthion (0.01)                                 | Dichlorvos (0.01)                           | Dicrotophos (0.01)                             | Diméfox (0.01)                                     |
| Diméthoate (0.01)                                     |    | Diméthylvinphos (0.01)                                     | Dioxabenzofos (Salithion) (0.01)                        | Dioxathion (0.01)                           | Disulfoton (0.01)                              | Disulfoton sulfone (0.01)                          |
| Disulfoton sulfoxyde (0.02)                           |    | Ditalimphos (0.01)   | Edifenphos (0.02)                                       | EPN (0.02)                                  | Ethion (0.01)                                  | Ethoprophos (0.01)                                 |
| Ethyl parathion (0.01)                                |    | Etrimfos-oxon (P-O-Etrimfos) (0.01)                        | Etrimphos (0.01)  | Famophos (0.02)                             | Fenamiphos (0.01)                              | Fenamiphos-sulfone (0.02)                          |
| Fenamiphos-sulfoxyde (0.02)                           |    | Fenchlorphos (0.01)  | Fénitrothion (0.01)                                     | Fensulfothion (0.01)                        | Fensulfothiène Sulfone (0.02)                  | Fensulfothion-PO-sulfon (0.03)                     |
| Fensulfothion-PO-sulfoxyde (0.02)                     |    | Fenthion (0.01)  | Fenthion-PO-sulfoxid (0.01)                             | Fenthion-PS-Sulfoxid (0.01)                 | Fention-PC-sulfon (0.02)                       | Fention-PS-sulfon (0.02)                           |
| Fonofos (0.01)  |    | Formothion (0.01)  | Fosthiazate (0.01)                                      | Fosthietan (0.01)                           | Hepténophos (0.01)                             | Hexylthiofos (0.02)                                |
| IBP (probenfos) (0.01)                                |    | Iodofenphos (0.01)   | Isazophos (0.01)  | Isocarbofos (0.01)                          | Isofenphos (0.01)                              | Isofenphos-Méthyl (0.01)                           |
| Isoxathion (0.02)                                     |    | Leptophos (0.02)   | Malaoxon (dégradation Malathion) (0.01)                 | Malathion (0.01)                            | Mecarbam (0.01)                                | Mephosfolan (0.01)                                 |
| Merphos (0.01)  |    | Méthacrifos (0.01)   | Methamidophos (0.01)                                    | Méthidathion (0.01)                         | Mévinphos (0.01)                               | Monocrotophos (0.01)                               |
| Morphothion (0.02)                                    |    | Naled (0.01)   | N-Desethyl-pirimiphos-méthyl (0.01)                     | Ométhoate (0.01)                            | Oxydéméton méthyl (0.02)                       | Paraoxon (0.01)                                    |
| Paraoxon-méthyl (0.01)                                |    | Parathion-méthyl (0.01)                                    | Phenkapton (0.02)                                       | Phenthoate (0.01)                           | Phorate (0.01)                                 | Phorate sulfoxyde (0.01)                           |
| Phorat-sulfon (0.01)                                  |    | Phosalone (0.02)   | Phosfolane (0.01)                                       | Phosmet (0.02)                              | Phosphamidon (0.01)                            | Piperophos (0.01)                                  |
| Pirimiphos-ethyl (0.01)                               |    | Pirimiphos-méthyl (0.01)                                   | Pirimite (0.01)   | Profenofos (0.01)                           | Propaphos (0.01)                               | Propétamphos (0.01)                                |
| Prothiophos (0.01)                                    |    | Prothoate (0.01)   | Pyrazophos (0.02)                                       | Pyrazophos (0.02)                           | Pyridaphenthion (0.01)                         | Quinalphos (0.01)                                  |
| Quintifos (0.01)                                      |    | Sulfotep (0.01)  | Sulprofos (0.02)  | Tebupirimfos (0.01)                         | TEPP (0.01)                                    | Terbufos (0.01)                                    |
| Terbufos-sulfon (0.01)                                |    | Tetrachlorvinphos (0.01)                                   | Thiométon (0.01)  | Thionazin (0.01)                            | Tolclofos-méthyl (0.01)                        | Triamiphos (0.02)                                  |
| Triazophos (0.01)                                     |    | Tribufos (0.01)  | Trichloron (0.03)                                       | Trichloronate (0.01)                        | Vamidathion (0.02)                             |  |
| SPGH2   | ZP | Acaricides dans le miel (Quechers) (LOQ* mg/kg)            |   |   |  |  |
| 2,4'-Formoxyldid (métabolite de l'Amitraze) (0.01)    |    | Acétamipride (0.01)  | Amitraze (0.01)   | BTS 27271 (métabolite de l'Amitraze) (0.01) | Carbendazime (0.002)                           | Carbendazime (MBC) et benomyl (0.002)              |
| Clothianidin (0.01)                                   |    | Imidaclopride (0.01)                                       | Nitenpyram (0.1)  | Thiacloprid (0.01)                          | Thiamethoxam (0.01)                            |  |
| SPGH3   | ZP | Acaricides dans le miel - S19 ECD (LOQ* mg/kg)             |   |   |  |  |
| Acrinathrine (0.01)                                   |    | Dichlorobenzophenone, o,p- (0.01)                          | Dichlorobenzophenone, p,p- (dégradation dicofol) (0.01) | Dicofol, o,p- (0.01)                        | Dicofol, p,p- (0.01)                           | Fluméthrine (0.2)                                  |
| Tau-fluvalinate (0.01)                                |    |  |   |   |  |  |
| SPGH4   | ZP | Acaricides dans le miel - S19 MSD (LOQ* mg/kg)             |   |   |  |  |
| 4,4-Dibromobenzophénone (0.01)                        |    | Boscalide (0.01)   | Bromopropylate (0.01)                                   | Cymiazole (0.01)                            | DEET Diethyltoluamide (0.01)                   |  |
| SPGH5   | ZP | Acaricides dans le miel - S19 FPD (LOQ* mg/kg)             |   |   |  |  |
| Chlorfenvinphos (0.01)                                |    | Coumaphos (0.02)   | Malathion (0.01)  |   |  |  |
| ZP931   | ZP | Screening pesticides Quechers LC-MS/MS (LOQ* mg/kg)        |   |   |  |  |
| 4-Bromo-2-chlorophénol (0.01)                         |    | 2,4,5-T (0.01)   | 2,4-D (0.01)  | 2,4-DB (0.1)                                | 2,4-DP (dichlorprop) (0.01)                    | 2,4'-Formoxyldid (métabolite de l'Amitraze) (0.01) |
| 2,4-MCPA (0.01)                                       |    | 2,4-MCPB (0.01)  | 2,4-MCPP (mécoprop) (0.01)                              | 2,6-Dichlorobenzamide (0.01)                | 3-Hydroxycarbofurane (0.001)                   | 4-bromophénylurée (0.01)                           |
| 4-CPA (Acide 4-ChlorophenoxyAcétique) (0.01)          |    | 6-Benzyladenine (0.01)                                     | Abamectine (0.1)  | Acéphate (0.01)                             | Acétamipride (0.01)                            | Acetochlor (0.01)                                  |
| Acibenzolar-s-méthyl (0.01)                           |    | Acide (2-naphthoxy)acétique (0.01)                         | Acide naphthylacétique (0.1)                            | Acifluorfen (0.05)                          | Acrinathrine (0.01)                            | Alanycarb (0.01)                                   |
| Aldicarb sulfone (0.01)                               |    | Aldicarb sulfoxyde (0.05)                                  | Aldicarbe (0.02)  | Ametoctradin (0.01)                         | Aminocarbe (0.01)                              | Amisulbrone (0.01)                                 |
| Amitraze (0.01)                                       |    | Anilofos (0.01)  | Antraquinone (0.01)                                     | Atrazine (0.01)                             | Atrazine désisopropyl (0.01)                   | Azaconazole (0.01)                                 |
| Azadirachtine (0.05)                                  |    | Azinphos-méthyl (0.01)                                     | Azocyclotin (0.01)                                      | Azoxystrobine (0.01)                        | Bénalaxyl (0.01)                               | Bendiocarbe (0.01)                                 |
| Benfusérate (0.02)                                    |    | Benodanil (0.01)   | Benoxacor (0.01)  | Bensulide (0.01)                            | Béntazone (0.01)                               | Benthiavalcarb-isopropyl (0.01)                    |
| Benzoaximate (0.01)                                   |    | Benzylidiméthyloctadecylammonium chloride (BAC C18) (0.02) | Benzylidiméthylcetylammonium chloride (BAC C8) (0.02)   | Bifenazat (0.01)                            | Bilertanol (0.01)                              | Bixafen (0.01)                                     |
| Boscalide (0.01)                                      |    | Bromoxynil (0.01)  | Bromuconazole (cis-Isomer) (0.01)                       | Bromuconazole (trans-Isomer) (0.01)         | BTS 27271 (métabolite de l'Amitraze) (0.01)    | BTS 44595 (0.01)                                   |
| BTS 44596 (0.01)                                      |    | Bupirimate (0.01)  | Buprofezine (0.01)                                      | Butocarboxim sulfoxyde (0.01)               | Butoxyde de Pipéronyle (PBO) (0.01)            | Buturon (0.01)                                     |
| Butylate (0.02)                                       |    | Cadusaphos (0.02)  | Carbaryl (0.01)   | Carbendazime (0.005)                        | Carbendazime (MBC) et benomyl (0.005)          | Carbétamide (0.01)                                 |
| Carbofuran (0.001)                                    |    | Carbosulfan (0.01)   | Carboxine (0.01)  | Carfentrazone-ethyl (0.01)                  | Carpropamide (0.01)                            | Chlorantranilprole (0.01)                          |
| Chlorbromuron (0.01)                                  |    | Chlorbufam (0.01)  | Chlorfluaazuron (0.01)                                  | Chloridazon (Pyrazon) (0.02)                | Chlorotoluron (0.01)                           | Chloroxuron (0.01)                                 |
| Chlorprophame (0.01)                                  |    | Chlorpyrifos (-ethyl) (0.01)                               | Chlorpyrifos-méthyl (0.01)                              | Chlorure de benzethonium (0.02)             | Chlorure de benzododecinium (BAC (C12)) (0.02) | Chlorure de cétalkonium (BAC (C16)) (0.02)         |
| Chlorure de Didécylméthylammonium (DDAC (C10)) (0.02) |    | Chlorure de miristalkonium (BAC (C14)) (0.02)              | Chromafenozide (0.1)                                    | Cinidon-éthyle (0.01)                       | Clefoxydim (0.01)                              | Clethodim (0.01)                                   |
| Climbazole (0.01)                                     |    | Clofentézine (0.01)  | Clomazone (0.01)  | Clomeprop (0.1)                             | Cloprop (0.01)                                 | Clopyralide (0.1)                                  |
| Clothianidin (0.01)                                   |    | Coumaphos (0.01)   | Crimidine (0.01)  | Cyanofenphos (0.01)                         | Cyantranilprole (0.01)                         | Cyazofamide (0.01)                                 |
| Cycloate (0.01)                                       |    | Cycloxydime (0.01)   | Cylflumetofen (0.01)                                    | Cyhalotop butyl (0.05)                      | Cyhexatin (TCyT) (0.01)                        | Cymoxanil (0.01)                                   |
| Cyphenothrine (0.05)                                  |    | Cyproconazole (0.01)                                       | Cyprodinil (0.01)                                       | Cyromazine (0.05)                           | Dazomet (0.01)                                 | DEET Diethyltoluamide (0.01)                       |

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**ZP931 ZP Screening pesticides Quechers LC-MS/MS (LOQ\* mg/kg)**

|  |  |                                |                                |   |   |
|--|--|--------------------------------|--------------------------------|---|---|
| Demeton-S-méthyl (0.02)                                | Demeton-S-méthyl-sulfone (0.01)            | Desmedipham (0.01)             | Desthio-prothioconazole (0.01) | Diafenthiuron (0.01)                              | Diallat (0.01)                          |
| Diazinon (0.01)  | Dicamba (0.1)                              | Dichlorfenthion (0.01)         | Dichlorimid (0.01)             | Dichlorvos (0.02)                                 | Dicrotophos (0.01)                      |
| Didodecyl diméthyl ammonium chloride (DDAC C12) (0.02) | Diethofencarbe (0.01)                      | Difénacoum (0.01)              | Difénamide (0.01)              | Difénoconazole (0.01)                             | Difénoxuron (0.01)                      |
| Diffubenzuron (0.01)                                   | Diffufenican (0.01)                        | Diméfox (0.01)                 | Diméfuron (0.1)                | Dimepiperate (0.01)                               | Diméthachlor (0.01)                     |
| Diméthénamide (0.01)                                   | Diméthoate (0.01)                          | Diméthomorphe (0.01)           | Dimétlan (0.01)                | Dimoxystrobine (0.01)                             | Diniconazole (0.01)                     |
| Dinocap (0.05)   | Dinoseb (0.01)                             | Dinotéfurane (0.05)            | Dinotérb (0.01)                | Dioclyldiméthylammonium chloride (DDAC C8) (0.02) | Dioxacarb (0.01)                        |
| Diphénylamine (0.02)                                   | Disulfoton (0.01)                          | Disulfoton sulfone (0.01)      | Disulfoton sulfoxyde (0.01)    | Diuron (0.01)                                     | Dodemorf (0.01)                         |
| Dodine (0.01)  | Emamectine (0.01)                          | EPN (0.01)                     | Époxiconazole (0.01)           | EPTC (0.01)                                       | Ethiofencarbe (0.01)                    |
| Ethiofencarb-sulfone (0.01)                            | Ethiofencarb-sulfoxyde (0.01)              | Ethion (0.01)                  | Ethiprol (0.01)                | Ethirimol (0.01)                                  | Ethofumesate (0.01)                     |
| Ethoprophos (0.01)                                     | Ethoxyquine (0.01)                         | Ethylchlorate (0.01)           | Étofenprox (0.01)              | Fenamidone (0.01)                                 | Fenamiphos (0.01)                       |
| Fenamiphos-sulfone (0.01)                              | Fenamiphos-sulfoxyde (0.01)                | Fénarimol (0.01)               | Fénazaquine (0.01)             | Fenbuconazole (0.01)                              | Fenbutatin oxyde (0.01)                 |
| Fenhexamid (0.01)                                      | Fenobucarb (0.01)                          | Fenoprop (0.01)                | Fenoxaprop-P (0.01)            | Fenoxycarbe (0.01)                                | Fenpiclonil (0.01)                      |
| Fenpropidin (0.01)                                     | Fenpropimorphe (0.01)                      | Fenpyrazamine (0.01)           | Fenpyroximate (0.01)           | Fensulfothion (0.01)                              | Fenthion (0.01)                         |
| Fenthion-oxone (0.01)                                  | Fenthion-PO-sulfoxid (0.01)                | Fenthion-PS-Sulfoxid (0.01)    | Fentine (seus inclis) (0.01)   | Fention-PO-sulfon (0.01)                          | Fention-PS-sulfon (0.01)                |
| Fipronil (0.005)                                       | Fipronil desulfuryl (0.01)                 | Fipronil sulfite (0.005)       | Fipronil sulfon (0.005)        | Fioniacamide (0.02)                               | Fluazifop-P (0.01)                      |
| Fluazifop-P-butyle (0.01)                              | Fluaziname (0.01)                          | Fluazuron (0.01)               | Flubendiamide (0.01)           | Flucyclohexuron (0.01)                            | Fludioxonil (0.01)                      |
| Flufenacet (0.01)                                      | Flufenoxuron (0.01)                        | Flufenzine (0.01)              | Fluometuron (0.01)             | Fluopicolid (0.01)                                | Fluopyram (0.01)                        |
| Fluoxastrobine (0.01)                                  | Flupyradifurone (0.01)                     | Flurochloridone (0.01)         | Fluroxyppyr (0.01)             | Fluroxyppyr-Méthylheptyl (0.01)                   | Flurprimidol (0.01)                     |
| Flurtamone (0.01)                                      | Flusilazole (0.01)                         | Fluthiacet-méthyl (0.01)       | Flutianil (0.01)               | Flutolanil (0.01)                                 | Flutriafol (0.01)                       |
| Fluxapyroxade (0.01)                                   | FM-6-1 (métabolite du Triflumizole) (0.01) | Fomesafen (0.01)               | Forchlorfenuron (0.01)         | Formetanate (0.01)                                | Fosthiazate (0.01)                      |
| Fuberidazole (0.01)                                    | Furalaxyl (0.01)                           | Furaméthpyre (0.01)            | Furathiocarb (0.01)            | Haloxypol (0.01)                                  | Hepténophos (0.01)                      |
| Hexaconazole (0.01)                                    | Hexaflumuron (0.01)                        | Hexazinone (0.01)              | Hexythiazox (0.01)             | Imazalil (0.01)                                   | Imazapyr (0.01)                         |
| Imazaquin (0.01)                                       | Imazethapyr (0.01)                         | Imibenconazole (0.01)          | Imidaclopride (0.01)           | Indaziflam (0.01)                                 | Indoxacarbe (0.01)                      |
| Iodosulfuron méthyle (0.01)                            | Ioxynil (0.01)                             | Iprodione (0.01)               | Iprovalicarbe (0.01)           | Isazophos (0.01)                                  | Isofenphos (0.01)                       |
| Isoprocab (0.01)                                       | Isoprotiolane (0.01)                       | Isoproturon (0.01)             | Isopyrazam (0.01)              | Isouron (0.01)                                    | Isoxaben (0.01)                         |
| Isoxaflutole (0.01)                                    | Kresoxime-méthyl (0.01)                    | Lénacile (0.01)                | Linuron (0.01)                 | Lufénuron (0.01)                                  | Malaoxon (dégradation Malathion) (0.01) |
| Malathion (0.01)                                       | Mandipropamide (0.01)                      | Mefentriulfonazole (0.01)      | Mépanipyrin (0.01)             | Mésotrione (0.1)                                  | Metaflumizone (0.01)                    |
| Métalaxyl (0.01)                                       | Metamitrone (0.01)                         | Métoconazole (0.01)            | Méthabenzthiazuron (0.01)      | Méthacrifos (0.01)                                | Méthamidophos (0.02)                    |
| Méthidathion (0.02)                                    | Méthiocarb sulfone (0.01)                  | Méthiocarb Sulfoxyde (0.01)    | Méthiocarbe (0.01)             | Méthomyl (0.01)                                   | Méthoxyfenozid (0.01)                   |
| Metobromuron (0.01)                                    | Métolachlore (0.01)                        | Metolcarb (0.01)               | Métozulame (0.01)              | Métoxuron (0.01)                                  | Métribuzine (0.01)                      |
| Milbémectin A3 (0.1)                                   | Milbémectin A4 (0.1)                       | Molinate (0.01)                | Monocrotophos (0.01)           | Monolinuron (0.01)                                | Monuron (0.01)                          |
| Myclobutanil (0.01)                                    | Naphthalene Acetamide (0.01)               | Napropamide (0.01)             | Néburon (0.01)                 | Nicosulfuron (0.01)                               | Nitenpyram (0.01)                       |
| Novaluron (0.01)                                       | Noviflumuron (0.01)                        | Nuarimol (0.01)                | Ofurace (0.01)                 | Ornéthoate (0.01)                                 | Oryzastrobine (0.01)                    |
| Oryzalin (0.01)  | Oxadiazon (0.01)                           | Oxadixyl (0.01)                | Oxamyl (0.01)                  | Oxamyl-oxime (0.01)                               | Oxalicarbonyl (0.01)                    |
| Oxfendazole (0.01)                                     | Oxycarboxine (0.01)                        | Oxydéméton méthyl (0.02)       | Pacloubutrazole (0.01)         | Paraoxon (0.01)                                   | Paraoxon-méthyl (0.01)                  |
| Parathion-méthyl (0.05)                                | Pebulate (0.01)                            | Penconazole (0.01)             | Pencycuron (0.01)              | Pendiméthaline (0.01)                             | Penflufen (0.01)                        |
| Penoxsulame (0.01)                                     | Pentachlorophénol (PCP) (0.01)             | Pentachlor (0.01)              | Penthiopyrad (0.01)            | Péthoxamide (0.01)                                | Phénmédiaphame (0.01)                   |
| Phenthoate (0.01)                                      | Phorate (0.01)                             | Phorate sulfoxyde (0.01)       | Phorat-sulfon (0.01)           | Phosalone (0.01)                                  | Phosmet (0.01)                          |
| Phosmet-oxon (0.01)                                    | Phosphamidon (0.01)                        | Phoxime (0.01)                 | Picardin (Icaridin) (0.01)     | Picloram (0.1)                                    | Pinoxaden (0.01)                        |
| Pirimicarb, desméthyl-formamido- (0.01)                | Pirimicarbe (0.01)                         | Pirimicarbe, Desméthyl- (0.01) | Pirimiphos-méthyl (0.01)       | Prochloraz (0.01)                                 | Procyimidone (0.01)                     |
| Profenofos (0.01)                                      | Promecarb (0.01)                           | Prométo (0.01)                 | Propamocarbe (0.01)            | Propanil (0.01)                                   | Propaquizafop (0.01)                    |
| Propargite (0.01)                                      | Prophame (0.01)                            | Propiconazole (0.01)           | Propoxur (0.01)                | Propoxycarbazon-2-hydroxy (0.01)                  | Propoxycarbazone (0.01)                 |
| Propyzamide (0.01)                                     | Proquinazid (0.02)                         | Prosulfocarbe (0.01)           | Prothioconazole (0.01)         | Pymétrozine (0.01)                                | Pyraclotrobine (0.01)                   |
| Pyraflufen, deséthyl- (0.01)                           | Pyraflufen-éthyl (0.01)                    | Pyrasulfotole (0.01)           | Pyréthrine (total) (0.1)       | Pyridabène (0.01)                                 | Pyridate (0.01)                         |
| Pyrifluquinazone (0.01)                                | Pyriméthanal (0.01)                        | Pyrimidifén (0.01)             | Pyriphénone (0.01)             | Pyriproxifen (0.01)                               | Pyroxulam (0.01)                        |
| Quinlorac (0.01)                                       | Quinmerac (0.01)                           | Quinoclamine (0.01)            | Quinoxifen (0.01)              | Quizalofop (0.01)                                 | Quizalofop-P-éthyl (0.01)               |
| Quizalofop-P-tefuryl (0.01)                            | Resmethrin (0.01)                          | Rimsulfuron (0.01)             | Rotenone (0.01)                | Saflufenacil (0.01)                               | Sedaxane, cis- (0.01)                   |
| Sedaxane, trans- (0.01)                                | Sethoxydim (0.01)                          | Simazine (0.01)                | Simeconazole (0.01)            | Simetryne (0.01)                                  | Spinetoram (0.01)                       |
| Spinosad (0.01)  | Spirodiclofen (0.01)                       | Spiromesifène (0.05)           | Spirotetramate (0.01)          | Spirotetramat-enol (0.01)                         | Spirotetramat-enolglucoside (0.02)      |
| Spirotetramat-ketohydroxy (0.01)                       | Spirotetramat-monohydroxy (0.01)           | Spiroxamine (0.01)             | Sulcotrione (0.05)             | Sulfentrazon (0.01)                               | Sulfotep (0.01)                         |
| Sulfoxalor (0.01)                                      | Sulprofos-sulfoxyde (0.01)                 | Tébuconazole (0.01)            | Tébufenozide (0.01)            | Tébufenpyrad (0.01)                               | Téflubenzuron (0.01)                    |
| Tepraloxymid (0.01)                                    | Terbacile (0.01)                           | Terbufos (0.01)                | Terbufos-sulfon (0.01)         | Terbufos-sulfoxyde (0.01)                         | Terbumeton (0.01)                       |
| Terbutylazine (0.01)                                   | Tetraconazole (0.01)                       | TFNA (0.02)                    | TFNG (0.02)                    | Thiabendazole (0.01)                              | Thiacloprid (0.01)                      |
| Thiaméthoxam (0.01)                                    | Thiobencarb (0.01)                         | thiocyclam (0.02)              | Thiodicarbe (0.01)             | Thiofanox (0.02)                                  | Thiofanox-Sulfone (0.01)                |
| Thiofanox-Sulfoxid (0.01)                              | Thiophanate-méthyl (0.005)                 | Tolclofos-méthyl (0.01)        | Tolfenpyrad (0.01)             | Tralkoxydim (0.01)                                | Triadiméfon (0.01)                      |
| Triadiméfon (0.01)                                     | Triasulfuron (0.01)                        | Triazophos (0.01)              | Trichlorfon (0.05)             | Triclopyr (0.01)                                  | Tricyclozole (0.01)                     |
| Trimorph (0.01)  | Trifloxystrobine (0.01)                    | Triflumizol (0.01)             | Triflumuron (0.01)             | Triflussulfuron-méthyl (0.01)                     | Triforine (0.01)                        |
| Triméthacarb 3.4.5- (0.01)                             | Trinexapac-Ethyle (0.02)                   | Triticonazole (0.01)           | Valfenalate (0.01)             | Vamidothion (0.01)                                | Vamidothion-sulfone (0.01)              |
| Vamidothion-sulfoxyde (0.01)                           | XMC (Macbal) (0.01)                        | Xylycarb (0.01)                | Zoxamide (0.01)                |   |   |

**SIGNATURE**


 Christophe Lepetit  
 Expert Analytique Contaminants

Rapport validé électroniquement par Christophe Lepetit

|                             |   |             |                   |                 |
|-----------------------------|---|-------------|-------------------|-----------------|
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