

MINISTRY OF AGRO INDUSTRY & FOOD SECURITY

Pesticides Regulatory Office, Réduit

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Pesticide Residue Analysis for samples collected by Pesticides Regulatory Office for the Month of October 2023

Number of samples collected: **112**

Number of samples from farm gate level: **36**

Number of samples from supermarkets: **13**

Number of samples from National Wholesale Market: **52**

Number of imported samples: **11**

Number of samples with pesticide residues exceeding MRL: 3

Number of samples with pesticide residues not recommended on those crops: 13

Improvement Notice issued: 15

1. Results of analysis of samples collected at farm gate level

| SN. | Fruits and Vegetables | Locality | Pesticides detected | Amount (mg/kg) | MRL (mg/kg) |
|-----|-----------------------------------|-----------------|---|-------------------------|-------------------------------------|
| 1 | Lettuce (Iceberg) | Petit Verger | Metalaxyl | 0.028 | NR |
| 2 | Lettuce (Batavia) | Petit Verger | NDL | - | - |
| 3 | Eggplant | Petit Camp | NDL | - | - |
| 4 | Broccoli | Petit Camp | NDL | - | - |
| 5 | Eggplant- Garden Egg (Anguive) | Petit Camp | NDL | - | - |
| 6 | Lettuce | Carreau Laliane | NDL | - | - |
| 7 | Onion | Carreau Laliane | Azoxystrobin Difenoconazole Tebuconazole | 0.018 0.021 0.038 | 10 NR 0.15 |
| 8 | Chinese White Cabbage (Tom Pouce) | Carreau Laliane | Tebuconazole | 0.045 | NR |
| 9 | Chinese White Cabbage (Tom Pouce) | Carreau Laliane | Boscalid Pyraclostrobin Tebuconazole | 0.013 0.049 0.019 | NR NR NR |

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|----|---|-----------------|--------------------|-------|-----------|
| 10 | Chinese White Cabbage (Brède Baton Vert) | Carreau Laliane | NDL | - | - |
| 11 | Lettuce | Carreau Laliane | NDL | - | - |
| 12 | Chinese White Cabbage (Brède Baton Vert) | Carreau Laliane | NDL | - | - |
| 13 | Chinese White Cabbage (Tom Pouce) | Phoenix | NDL | - | - |
| 14 | Celery | Phoenix | NDL | - | - |
| 15 | Lettuce | Phoenix | NDL | - | - |
| 16 | Chinese Chives (Queue d'Ail) | Phoenix | NDL | - | - |
| 17 | Lettuce (Multifeuilles) | Petit Verger | Spinosad | 0.240 | 10 |
| 18 | Lettuce (Batavia) | Petit Verger | Spinosad | 0.073 | 10 |
| 19 | Chayote | La Laura | NDL | - | - |
| 20 | Spinach | La Laura | NDL | - | - |
| 21 | Chinese White Cabbage (Brède Baton Vert) | La Laura | NDL | - | - |
| 22 | Amaranth | La Laura | NDL | - | - |
| 23 | Parsley | La Laura | Pymetrozine | 0.012 | NR |
| 24 | Thyme | La Laura | NDL | - | - |
| 25 | Chinese White Cabbage (Brède de Chine Frisée) | La Laura | NDL | - | - |
| 26 | Chinese Cabbage (Petsai) | La Laura | NDL | - | - |
| 27 | Coriander | La Laura | Linuron | 0.036 | NR |
| 28 | Chinese White Cabbage (Tom Pouce) | La Laura | NDL | - | - |
| 29 | Chayote Greens (Brède Chouchou) | La Laura | Pymetrozine | 0.010 | NS |
| 30 | Leek | La Laura | NDL | - | - |
| 31 | Turnip | La Laura | NDL | - | - |
| 32 | Lettuce | La Laura | NDL | - | - |
| 33 | Lettuce (Batavia) | Petit Verger | NDL | - | - |
| 34 | Lettuce | St Martin | NDL | - | - |
| 35 | Chinese Cabbage (Petsai) | St Martin | NDL | - | - |
| 36 | Turnip | St Martin | NDL | - | - |

2. Results of analysis of samples collected at auction and supermarkets

| SN. | Fruits and Vegetables | Super/Auction Market | Pesticides detected | Amount (mg/kg) | MRL (mg/kg) |
|-----|-----------------------------------|------------------------------------|---|--|--------------------------------------|
| 1 | Lettuce Tourbillon (Batavia) | Tribeca Mall | NDL | - | - |
| 2 | Tomato | Tribeca Mall | Boscalid Chlorantraniliprole | 0.032 0.012 | 3 5 |
| 3 | Tomato | Tribeca Mall | NDL | - | - |
| 4 | Potato | Tribeca Mall | NDL | - | - |
| 5 | Chinese White Cabbage (Tom Pouce) | Tribeca Mall | NDL | - | - |
| 6 | Chinese White Cabbage (Tom Pouce) | Tribeca Mall | NDL | - | - |
| 7 | Bottle Gourd | National Wholesale Market | Piperonyl butoxide | 0.048 | NR |
| 8 | Cabbage | National Wholesale Market | NDL | - | - |
| 9 | Pineapple | National National Wholesale Market | Piperonyl butoxide | 0.037 | NR |
| 10 | Pineapple | National Wholesale Market | Piperonyl butoxide | 0.087 | NR |
| 11 | Pineapple | Wholesale Market | Piperonyl butoxide | 0.037 | NR |
| 12 | Pineapple | National Wholesale Market | Piperonyl butoxide | 0.067 | NR |
| 13 | Pineapple | National Wholesale Market | Piperonyl butoxide | 0.047 | NR |
| 14 | Cabbage | National Wholesale Market | NDL | - | - |
| 15 | Bitter Gourd | National Wholesale Market | Acetamiprid | 0.028 | 0.3 |
| 16 | Tomato | National Wholesale Market | NDL | - | - |
| 17 | English Cucumber | National Wholesale Market | NDL | - | - |
| 18 | Tomato | National Wholesale Market | Indoxacarb | 0.055 | 0.5 |
| 19 | Tomato | National Wholesale Market | NDL | - | - |
| 20 | Pumpkin | National Wholesale Market | Acetamiprid Metalaxyl Pyraclostrobin Thiophanate-methyl | 0.013 0.031 (Excess) 0.015 0.012 | 0.3 0.01 0.5 0.5 |

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|----|-------------------------|----------------------------------|-----------------------------------|-----------------------|-------------|
| 21 | Carrot | National Wholesale Market | NDL | - | - |
| 22 | Chayote | National Wholesale Market | NDL | - | - |
| 23 | Potato | National Wholesale Market | Metalaxyl | 0.011 | 0.05 |
| 24 | Tomato | National Wholesale Market | NDL | - | - |
| 25 | Pumpkin | National Wholesale Market | NDL | - | - |
| 26 | Tomato | National Wholesale Market | Pyraclostrobin | 0.017 | 0.3 |
| 27 | Cucumber | National Wholesale Market | Metalaxyl | 0.024 (Excess) | 0.01 |
| 28 | Beetroot | National Wholesale Market | NDL | - | - |
| 29 | Bean | National Wholesale Market | NDL | - | - |
| 30 | Bottle Gourd | National Wholesale Market | NDL | - | - |
| 31 | Pumpkin | National Wholesale Market | NDL | - | - |
| 32 | Pineapple | National Wholesale Market | NDL | - | - |
| 33 | Pineapple | National Wholesale Market | NDL | - | - |
| 34 | Mango | National Wholesale Market | NDL | - | - |
| 35 | Mango | National Wholesale Market | NDL | - | - |
| 36 | Bitter Gourd | National Wholesale Market | Thiophanate-methyl | 0.024 | 0.5 |
| 37 | Aubergine | Cascavelle | Thiamethoxam | 0.010 | NR |
| 38 | Tomato | Cascavelle | NDL | - | - |
| 39 | English Cucumber | Cascavelle | NDL | - | - |
| 40 | Cucumber | Cascavelle | NDL | - | - |
| 41 | Zucchini | Cascavelle | Hexaconazole | 0.012 (Excess) | 0.01 |
| 42 | Cherry Pepper (Pimento) | Cascavelle | Carbendazim Thiophanate-methyl | 0.020 0.060 | 2 0.1 |
| 43 | Broccoli | Cascavelle | NDL | - | - |
| 44 | Cabbage | National Wholesale Market | NDL | - | - |
| 45 | Potato | National Wholesale Market | NDL | - | - |

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|----|--------------|---------------------------|-----|---|---|
| 46 | Bottle Gourd | National Wholesale Market | NDL | - | - |
| 47 | Lettuce | National Wholesale Market | NDL | - | - |
| 48 | Thyme | National Wholesale Market | NDL | - | - |
| 49 | Cabbage | National Wholesale Market | NDL | - | - |
| 50 | Cabbage | National Wholesale Market | NDL | - | - |
| 51 | Tomato | National Wholesale Market | NDL | - | - |
| 52 | Pumpkin | National Wholesale Market | NDL | - | - |
| 53 | Cabbage | National Wholesale Market | NDL | - | - |
| 54 | Bottle Gourd | National Wholesale Market | NDL | - | - |
| 55 | Chayote | National Wholesale Market | NDL | - | - |
| 56 | Bean | National Wholesale Market | NDL | - | - |
| 57 | Squash | National Wholesale Market | NDL | - | - |
| 58 | Pineapple | National Wholesale Market | NDL | - | - |
| 59 | Pineapple | National Wholesale Market | NDL | - | - |
| 60 | Pineapple | National Wholesale Market | NDL | - | - |
| 61 | Pineapple | National Wholesale Market | NDL | - | - |
| 62 | Pineapple | National Wholesale Market | NDL | - | - |
| 63 | Mango | National Wholesale Market | NDL | - | - |
| 64 | Mango | National Wholesale Market | NDL | - | - |
| 65 | Mango | National Wholesale Market | NDL | - | - |

3. Results of analysis from imported samples

| SN. | Fruits and Vegetables | Pesticides detected | Amount (mg/kg) | MRL (mg/kg) |
|-----|-------------------------|--|--|--|
| 1 | Melon (Spanspek) | NDL | - | - |
| 2 | Mandarin | Imazalil Methoxyfenozide Pyraclostrobin Pyrimethanil Thiabendazole | 0.990 0.140 0.017 0.013 0.810 | 15 2 2 8 7 |
| 3 | Plum | NDL | - | - |
| 4 | Squash (Baby Patty Pan) | NDL | - | - |
| 5 | Apple (Red) | NDL | - | - |
| 6 | Lime | Acetamiprid | 0.012 | 1 |
| 7 | Lemon | Fludioxonil Thiabendazole | 0.029 0.032 | 10 7 |
| 8 | Bean (Extra Fine) | Azoxystrobin Difenoconazole | 0.035 0.029 | 3 1 |
| 9 | Grapes (White Seedless) | Acetamiprid Azoxystrobin Cyprodinil Difenoconazole Fludioxonil Flutriafol Pyrimethanil Thiamethoxam | 0.069 0.085 0.580 0.082 0.140 0.029 0.064 0.011 | 0.5 3 3 2 2 0.8 5 0.5 |
| 10 | Cherry | Azoxystrobin Difenoconazole Fludioxonil | 0.026 0.025 0.540 | 2 0.3 5 |
| 11 | Kiwi | NDL | - | - |

Source MRL: The Use of Pesticides Act 2018 and Codex Alimentarius

MRL – Maximum Residue Level
 NDL – No Detectable Level
 NR- Not recommended on that Crop
 NS- Not specified in Act