

## Detection Limit (GT) G9 Co., Ltd

| Pesticides                    | mg./kg.              | Pesticides             | mg./kg.                              |
|-------------------------------|----------------------|------------------------|--------------------------------------|
| <b><u>Organophosphate</u></b> |                      |                        |                                      |
| acephate                      | > 30                 | methamidophos          | 1                                    |
| azinphos-ethyl                | 0.2                  | methidathion           | -ve<br>(test to 150)                 |
| azinphos-methyl               | > 100                | methyl-parathion       | > 50                                 |
| bromophos-ethyl               | 0.5                  | monocrotophos          | 0.05                                 |
| chlorfenvinphos               | 0.001                | naled(dibrom)          | 50                                   |
| chlorpyrifos                  | 0.5                  | omethoate              | 20                                   |
| chlorpyrifos-methyl           | > 10                 | pirimiphos-methyl      | 10                                   |
| coumaphos                     | 2                    | profenophos            | 0.005                                |
| dichlorvos                    | 0.005                | prothiophos(tokuthion) | 0.1                                  |
| dimethoate                    | -ve<br>(test to 150) | phoxim                 | 0.001                                |
| diazinon                      | 0.2                  | phosalone              | > 50                                 |
| dicrotophos                   | 0.05                 | quinalphos             | 10                                   |
| EPN                           | 20(in                | ronnel                 | 0.01                                 |
| ethion                        | methanol)            | salithion              | -ve(test to 20)                      |
| fenitrothion                  | 0.01                 | sulprofos              | > 100                                |
| isofenphos                    | 0.5                  | temephos               | from 0.01 to 10<br>same color (+1ve) |
| malathion                     | > 100                | triazophos             | 5                                    |
| mevinphos                     | 8                    | trichlorfon            | 0.05                                 |
|                               | 0.005                |                        |                                      |

| Pesticides              | mg./kg.   | Pesticides  | mg./kg.   |
|-------------------------|---|-------------|---|
| <b><u>Carbamate</u></b> |   |             |   |
| aldicarb                | 0.1   | carbofuran  | 0.05  |
| aldicarb-sulphoxide     | 0.01  | carbosulfan | variable, insoluble in<br>EtOH, have enzyme<br>inhibited. |
| aldicarb sulphone       | 0.2   |             | "   |
| aminocarb               | 0.1   | carbendazim | "   |
| BPMC                    | 5   | isoprocarb  | 0.5   |
| bendiocarb              | 0.1   | methiocarb  | > 5   |
| benomyl                 | variable, insoluble in<br>EtOH, have<br>enzyme<br>inhibited | methomyl    | 0.5   |
| bufencarb               | 0.01  | oxamyl      | 0.05  |
| carbaryl                | 0.05  | pirimicarb  | 0.1   |

## STANDARD METHODS COMPARATION

| Samples   | GT-Test Kit         |                 |               | Standard Methods (GC & HPLC)   |   |                  |                  |
|---|---------------------|-----------------|---------------|--|---|------------------|------------------|
| <b>Vegetables 528 samples</b>   | <b>Not detected</b> | <b>Detected</b> |               | <b>Not detected</b>  | <b>Detected</b>   |                  |                  |
|   |                     | <b>Safe</b>     | <b>Unsafe</b> |  | <b>&lt;Codex</b>  | <b>&gt;Codex</b> |                  |
|   | 350<br>(25.4%)      | 134<br>(25.4%)  | 44<br>(72.5%) | 383<br>(72.5%)   | 130<br>(24.6%)  | 16<br>(3.0%)     |                  |
|   |                     |                 | <b>↓</b>      |  |   |                  |                  |
| From the above table, 44 unsafe samples by GT test kit were compared to the standard method |                     |                 |               |  |   |                  |                  |
| <b>GT Test Kit</b>  |                     |                 |               | <b>Standard Methods (GC&amp;HPLC)</b>  |   |                  |                  |
| <b>44 samples (unsafe)</b>  |                     |                 |               | <b>Not Detected</b>  |   | <b>Detected</b>  |                  |
| May contain some toxic cholinesterase inhibitors or any pesticides that can't be analyzed   |                     |                 |               |  |   | <b>&gt;CODEX</b> | <b>&gt;CODEX</b> |
|   |                     |                 |               | 12*  |   | 16               | 16               |
| <b>Sample</b>   | <b>GT-Test Kit</b>  |                 |               | <b>Standard Methods (GC &amp;HPLC)</b>   |   |                  |                  |
|   | <b>Not detected</b> | <b>Detected</b> |               | <b>Not detected</b>  | <b>Detected</b>   |                  |                  |
|   |                     | <b>Safe</b>     | <b>Unsafe</b> |  | <b>&gt;Codex</b>  |                  |                  |
| Vegetables in the pack of the food, ready to cook 50 samples                                | 23<br>(46.0%)       | 22<br>(44.0%)   | 5<br>(48.0%)  | 26 samples detected (52.0%) but no codex MRLs in ready to cook food. Therefore can't decide to point that those samples are safe or unsafe for consumption |   |                  |                  |
| Cereal beverage 9 samples   | 7                   | -               | 2             | 7  | No codex MRLs, but can detect high level of pesticides in 2 samples |                  |                  |