

PESTICIDE RESIDUE UNIT

NATIONAL PUBLIC HEALTH LABORATORY



MINISTRY OF HEALTH MALAYSIA

PESTICIDE RESIDUE, THE EXTENSIVELY USED CHEMICALS IN THE WORLD

Since before 2000 BC, human have utilized pesticide to protect their crops. It has continuously widely used across the world until today, in fact that pesticides or insect killers are among the most extensively used chemicals in the world today and they are also among the most hazardous compounds to the human well being.

Some pesticides had been banned from being used and some had been allowed to use with certain level of amount which had been required by law across the countries.

Pesticides can be classified based upon their biological mechanism function or application method. Most pesticides work by poisoning pests.

Pesticides may cause acute and delayed health effects in those who are exposed including neurological, birth defects, fetal death, and neurodevelopment mental disorder.

PESTICIDE RESIDUE UNIT FUNCTIONS

- ◆ Functioning as part of the surveillance and monitoring laboratory in food quality & safety specifically in Pesticide Residue inline with the National Work Plan
- ◆ Training & Reference Center for Food Laboratories of Ministry of Health
- ◆ Providing monitoring program for festive season such as Chinese New Year or Eid Mubarak
- ◆ Providing the laboratory services in imported and exported items across the world
- ◆ Subcontracting others laboratories for Pesticides Residue samples
- ◆ Alert and capable in handling current issues related to the Pesticides Residue
- ◆ Involved in special projects such as Total Diet Studies, Cereals & 3Ps
- ◆ Participating in Proficiency Test program such as FAPAS & FODAS
- ◆ Involved in current method development and research

PURPOSES OF PESTICIDE RESIDUE

- Providing analytical and diagnostic laboratory services for surveillance, export and import monitoring programs for Ministry of Health
- Providing laboratory services in identification of causative agents during outbreak and crisis
- Providing monitoring program for festive seasons such as Eid Mubarak, Chinese New Year and Christmas
- Training Centre for Food Laboratories of Ministry of Health
- Participating in Proficiency Test Program such as FAPAS & FODAS
- Involved in current method development and research

SAMPLE REQUIREMENT FOR ANALYSIS

Fruits, Vegetables & Cereals	1-2kg or 8-10 units
Tea, Seeds & Herbs	0.2-0.5kg
Water	1L
Meat & Meat products	0.5kg
Fish & Fish products	1kg or 1-2 units
Shellfish & Bivalve	0.5-1kg
Milk	0.5L
Egg	10 units

