

# Competency Centre in AOA for Chemical Contaminants in Food and Food Contact Material

## AGRICULTURAL AND VETERINARY CONTAMINANTS

### Mycotoxin

Aflatoxins(5), OchratoxinA,  
Trichothecenes (6),  
Fumonisin (2), ZEN, DON,  
Patulin, Ergotalkaloides (12)

### Pesticides

Screening (>600)  
Glyphosates and metabolites (3)

### Vet drugs

Nitrofurans (4), Quinolone (18)  
Anthelmintics (9), Avermectins (6)  
Benzimidazoles (14), Coccidiostats (6)  
Growth Hormones (27), Beta-Lactams (25)  
Tetracyclines (10 incl. epimers)  
Aminoglycosides (14), Ionophores (5)  
Lincosamides and Macrolides (9)  
NSAID (5), Phenicol (3)  
Sulfonamides & others (30)

## PROCESS CONTAMINANTS AND ADULTERATION

### Process Contaminants

Acrylamide  
MCPDs, -Esters and Glycidyl-Esters  
Quaternary Ammonium Compounds  
Chlorate/Perchlorate  
Poly-aromatic Hydrocarbons (PAH)  
Nitrogenous compounds  
(Melamine, Cyanuric Acid, DCD etc)

### Allergens

Peanut, Casein, Gluten, Egg, Hazelnut

### GMO & Meat Authenticity

Detection, Identification and  
Quantification

### Others

Illegal Colorants (Sudans, Para Red)  
Sweeteners

## PACKAGING AND INORGANIC CONTAMINANTS

### Heavy Metals & Elements

14 elements, Arsenic Speciation

### Packaging

4-Nonylphenol (4-NP) & Tris-  
Nonylphenyl Phosphite (TNPP)  
Plasticizers  
Mineral oil hydrocarbons  
Primary Aromatic Amines  
Residual Solvents  
BADGE & BFDGE  
Styrene & Butadiene  
Photoinitiators  
Heavy Metals in Packaging

### Others

Fluoride, Sulfite  
Nitrite/Nitrate  
Radioactivity (Cs-134/137)