

NVWA National Residue Monitoring Plan



09 November2017





New Ministry since half October 2017

 Ministry of Agriculture, Nature and Food Quality



Organogram Laboratory for Feed and Food Safety



Employees laboratory

- ~140 employees
- ~60/70 employees dedicated microbiology / chemistry
- ~40/55 employees for routine analysis (technical school, BSc level)
- ~20/10 employees for method development (BSc, MSc and PhD level)
- ~10 employees staff

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Laboratory for Feed and Food Safety

Tasks:

- Routine analyses in chemical, microbiological, virology and molecular biology
- Chemical analyses on nutrients, authenticity, contaminants, mycotoxins, pesticides and veterinary medicines and hormones
- Scientific group for microbiology, molecular biology and virology research
- Small scientific group for analytical chemistry
- Develop new methods and techniques and maintain and support research methods



Laboratory for Feed and Food Safety

Tasks:

- Contribute to (inter) national working groups
- Technical advise to other teams in the organisation
- National Reference Laboratory for pesticides
- Coordination of the National Residue Monitoring Program (NRMP)



Responsibilities for the NRMP

• Design and drafting:

NVWA, MinEA, MinHealth, NRL, JZ

- Policy aspects:
- Coordination, Sampling, and Implementation:
- Analysis:

MinEA and MinHealth

NVWA

NVWA, part (appr 15%) is outsourced to RIKILT

 Enforcement on non-compliance:

NVWA



Residue Monitoring Plan





Policy input

•Ministries provide input on:

- ➢Relevance of topics, prioritization
- >Emerging topics
- Development in legislation
- Strategic input

Result is a scope of testing, strategy of results interpretation and enforcement policy which is politically supported and not conflicting.



Laboratory input

- National laboratories have there own technical meetings, 3-4 times per year
- Members:
 - Central Laboratory NVWA
 - National Reference Laboratories
- During these meetings technical feasibility of candidate modifications to the NRMP are discussed. Information regarding methods of analysis is exchanged.
- Result is up-to-date scope of testing



Laboratory input

Scope of testing is supported by EU lab network



• NL: coordination of NRMP



Laboratory requirements

- Decision 2002/657 stipulates
 - > performance criteria for analytical methods
 - > criteria for interpretation of results
- Methods are validated and meet the requirements on levels/limits
- Accreditation according to ISO17025:2005 (annually by Dutch Accreditation board)



Quality assurance

- Acting as the competent authority (CA) with broad knowledge of legislation
- Comprehensive accredited scope of analysis according to ISO17025 (screening & confirmation)
- Working with flexible scope, which gives an opportunity to anticipate in case of crises
- Knowledge of the playing field and expertise of external accredited laboratories
- Frequent interaction with NRL and EURL



Residues (96/23)

•Banned substances Cat A, zero tolerance (MRPL)

- Zeranoles
- Stilbenes (Des, Hex, De)
- Steroids (MPA, Cta, Cma, Tb, Mt, Mbol, Nt, stanozolol)
- Corticosteroids
- β-agonisten (CB, SB, MB, CIM, TB, BB, CP, enz → 20 compounds)
- Chloramphenicol
- Nitrofuranes
- Dapsone
- Chlorpromazine

•Licensed substances Cat B with a maximum residue limit (MRL)

- Veterinary drugs (Antibiotics, coccidiostats, anthelmintics, sedatives, NSAIDs)
- Contaminants (PCB's, PAHs, BFRs, Dioxins (screening), organophosphorous and organo-chlorine compounds



Legal framework – Decision 97/747 and Annex IV of Dir 96/23

Distribution of samples over substance groups for bovine:

- <u>Group A</u>: 0,25 % divided as follows:
- Each sub-group in Group A must be checked each year using a minimum of 5 % of the total number of samples to be collected for Group A.
- The balance must be allocated according to the experience and background information of the Member State.
- <u>Group B</u>: 0,15 %
- 30 % of the samples must be checked for Group B 1 substances.
- 30 % of the samples must be checked for Group B 2 substances.
- 10 % of the samples must be checked for Group B 3 substances.
- The balance must be allocated according to the situation of the Member
- State.



Implementation NRMP - Laboratory network

NVWA service department (KCDV) and divisions L&N and V&I

- Planning of sampling
- Transport

NVWA Laboratory

- Receipt & registration& analysis of samples
- Transfer of samples to RIKILT (for outsourced analyses)
- Electronic transfer of sample data and results of analysis
- Reporting

RIKILT

- NRL for residues
- Carrying out several outsourced analyses
- Results are reported to NVWA Laboratory



25.000 samples are taken en analyzed on a yearly basis



NPR 2017 imported products

Imported products					
Animal species	Number of Consignments 2016	Category of samples	Percentage (%)	Minimum nb of samples 2017	
Aquaculture	18.341	total group A and B:	1,0%	183	
Diary products	985	total group A and B:	1,0%	10	
Poultry	10.551	total group A and B:	1,0%	106	
Meat	10.540	total group A and B:	1,0%	105	
Game	288	total group A and B:	1,0%	3	
Honey	205	total group A and B:	1,0%	50	
		Total minimum required imported pro	457		



Carrying out the NRMP

Suspect samples

Observation by official veterinarians

Incentives:

- >Meat /kidney(BO/AB)
- Clinical deviations
- Administration of veterinary drugs
- ➤Injection sites







Antibiotics

Nouws Antibiotic Test (NAT)

- NAT-screening: the test comprises five test plates enabling group specific identification (tetracyclines, beta-lactam, macrolides, quinolones, sulfonamides and aminoglycosides). The NATscreening uses paper disks impregnated with renal pelvis fluid from kidney.
- NAT meat/kidney post-screening: method based on analysis of kidney and/or meat fluid. Post screening is only performed on the type of plate showing a positive NAT screening result.
- Chemical confirmation of suspect samples from the NAT meat and/or kidney post-screening.



NAT meat/kidney post-screening

- Post screening only on type of plate showing a positive NAT screening
- Fluid samples are prepared by homogenizing, heating and centrifugation.
- The supernatant is applied into the punch hole of the plate and supplemented with a synergistic buffer. After overnight incubation the inhibition zone is registered.











Flow scheme of the Nouws Antibiotic Test





Results Dutch National Residue Plan import part 2016

Species	Bovines		Poultry		Aquaculture		Milk		Wild game	
Group										
	N° samples	NC	N° samples	NC	N° samples	NC	N° samples	NC	N° samples	NC
A+B	80	1	104	0	136	2	9	0	4	0

Substances found: SEM, Salicylic acid, sulfamethoxazole



Import control via EU legislation, Article 20/24

Dependent on what is found and needed (RASFF). For 2017:

- analyses shrimps/fish on
- tetracyclines, nitrofurans, CAP



The results and follow up

- Compliant results, no issues, no harm, → Just reporting the result to our internal client
- Non-compliant results → leads always to a follow-up but enforcement depends on the issue



Thank you







Legislation (EG) Nr. 396/2005 and (EG) nr. 669/2009

Import control via multiresidue method for pesticides on fruit and vegetables

- High risk products/countries: import control within 48 hours : herbs, okra, peppers, grapes in selected countries
- High risk products and countries for `normal' import control: strawberries, tropical fruits, grapes, tea, beans, pods

