



# INTERNATIONAL ASSOCIATION FOR FEEDINGSTUFF ANALYSIS

Section Feedingstuff Microscopy

**IAG** - Internationale Arbeits-Gemeinschaft für Futtermitteluntersuchung  
Sektion Futtermittelmikroskopie

## ANNUAL CONFERENCE 2011 KREFELD 07.06. – 09.06.2011

- Opening and Welcome by Inge Paradies-Severin
- Welcome from CVUA-RRW by Dr. J. Schwermann
- Presentation of the participants and activities of 2010
- Ban on the feeding of meat and bone meal – now and future: J. Schulte-Domhof (MKULNV)
- Feed control in North Rhine Westphalia: Dr. R. Krull-Wöhrmann (CVUA-RRW)
- Concerning the technical lectures will be referred to the proceedings of our meeting.

**RINGTESTS** (for detailed information look at the evaluation of the particular ringtest):

### **VAN RAMSDOONK (NL) - IAG Ring test "animal protein 2011":**

Four samples were delivered, commercially produced, based on a cattle feed (sample A,B and D) and a fish meal (sample C).  
The meat and bone meal (MBM) used was proved to contain a high level of bovine material by PCR, and also has been tested by microscopy for pureness. All samples-sets were tested for homogeneity.

2011-A	Feed with 0.05% MBM
2011-B	Blank feed
2011-C	Fish meal with 1% MBM
2011-D	Feed with 1% of feather meal

The 57 laboratories from 25 countries participated: 20 member states of the European Union, and five other countries (Canada, China, Norway, Peru and Switzerland), 55 labs returned results based on microscopic analysis.

The description of used microscopic method is laid down in the former Directive 2003/126/EC to Annex VI and copied in the new Regulation (152/2009/EC) annex VI. The microscopic detection method is the only official control method to detect animal proteins in feedstuff!

### **Conclusion:**

- largest ring test ever took place for animal proteins in feeding stuff.
- in general very good results of all labs
- results give a good overview of the performance of the labs performing the microscopic method
- detection of ingredients of land animals was good in every cases.

- specificity of the detection of absence of fish meal and land animal material was very good ( 0.98 and 1,0)
- specificity as detection of the absence of fish-material was 0.91 for sample a and 0.87 for sample D
- overestimation of amount of land animal ingredients
- no correlation between using a type of glassware, embedding agent or analysing by binocular

**REISNER - (D) - IAG – Ring test 2011 "Determination of the composition of dairy feed":**

22 laboratories participated. The sample was a mixed feed for dairy provided by local producer. The sample was analysed according to IAG - Method A2 "Method for the identification and estimation of constituents in animal feedingstuff"

**Conclusion:** will be discussed on the next meeting in Hamburg

**FRICK (CH) – IAG – Ring Test 2011 "Ambrosia":**

- 27 laboratories participated
- For analysing was used IAG-Method A5 "Method for the Determination of *Ambrosia* (*Ambrosia artemisiifolia* L.) in non-pelleted Animal Feedingstuff"

Sample 1: Feed matrix was spiked with 2 Ambrosia – seeds, additional 1 Datura seed and 1 Sclerotium:

- 18 labs found 2 Ambrosia seeds
- 8 labs found 3 Ambrosia seeds
- 1 lab found 4 Ambrosia seeds
- The mean weight of the pooled Ambrosia seeds : 0,0129 g

Sample 2: Feed matrix was spiked with 2 Ambrosia – seeds, additional 1 Datura seed and 1 Sclerotium:

- 11 labs found 2 Ambrosia seeds
- 7 labs found 3 Ambrosia seeds
- 2 labs found 4 Ambrosia seeds
- 7 labs found only 1 Ambrosia seed
- The mean weight of the pooled Ambrosia seeds: 0.0111 g

Sample 3: Feed matrix was spiked with 6 Ambrosia – seeds, additional 1 Datura seed and 1 Sclerotium:

- 15 labs found 6 Ambrosia seeds
- 5 labs found 7 Ambrosia seeds
- 6 lab found 4 or 5 Ambrosia seeds
- 1 lab found only 2 Ambrosia seeds
- The mean weight of the pooled Ambrosia seeds: 0.031 g

**Conclusion:**

- All the labs found Ambrosia seeds → the characteristics of the seeds are known
- The quantitative results are relatively good except for one lab out of 27
- There seems to be no correlation between the results of the analysis and the fact of using sieves or the routine of the lab
- Working on small sub-samples was fast and gave more information about the performance of the labs, but does not necessarily reflect the routine situation and is not in accordance with the method
- Possible improvement of the protocol to improve repeatability (size of the sample, sieves, spreading of the seeds, magnifier) could be discussed

### **HERTEL (D) – IAG Ring test 2011 – “Ragwort in hay”:**

- 17 labs participated
- Hay samples were mixed with Senecio, Tanacetum and Hypericum
- For analysing was used IAG – Method A 8 “Method for the Determination of poisonous plants in roughage”

### **Conclusion:**

- Every Lab found all three plants in the hay sample
- Quantification was good

### **DECIDED RING TESTS FOR THE ANNUAL CONFERENCE IN FREISING (D) 2011:**

- open declaration in poultry or chicken feed– LUFA Nord-West (Oldenburg)
- open declaration in diary feed – Posieux (CH)
- animal proteins – RIKILT (Wageningen)

The three decided ringtests should not be delivered in the same month  
We decided a discussion about on the agenda of our next meeting.

### **IMPORTANT INFORMATIONS AND DECISIONS:**

- Publication of the Ringtest “IAG Ring test “animal protein 2011” by RIKILT was decided
- Because of the retirement of our 1st Chairman dr. Jan-Sten Jorgensen IAG - members decided to coopt dr. Jeroen Vancutsem as 2nd Chairman and to designate dr. Genevieve Frick from 2nd to 1st Chairman.

### **METHOD READING:**

- IAG-Method A8 - Method for the Determination of poisonous plants in roughage, 2nd reading

### **Following topics are scheduled for the meeting in Hamburg 2011:**

- Results of the IAG Ringtest “Composition of Dairy Feed”
- TSE Road Map 2
- Future planning of IAG ring tests – General discussion
- Discussion on methods:
  - IAG – Method A 8 “Method for the Determination of poisonous plants in roughage 3<sup>rd</sup> reading
  - IAG – Method A 9 “Method for Determination of Rice chaffs, 3<sup>rd</sup> reading
- The meeting in Hamburg will take place from 27. to 28.09.2011

For our annual conference 2012 we are invited to MUNICH/FREISING (D) and the meeting will take place from June 12<sup>th</sup>. to 14<sup>th</sup>, 2012.

Many thanks to the organizer team from Krefeld!

Secretary:

Dr. Franz Wernitznig

President:

Dr. Inge Paradies-Severin