

Short-Term Mission on

Activity 5.5 Recommendations and guidelines for laboratory organisation
within the Cards Twining Project BA05 IB AG 01
(26th – 30th of March)

Work plan:

The on-site visit 1/1 is assigned for the activities as lined out in the Twining Contract under No. 5.1.

A training workshop for diagnostic PCR (Polymerase Chain Reaction) should be performed at the Institut Dr. Vaso Butozan, Banja Luka, and at the Veterinary Institute of Bihac. A PANPEST-PCR as an example for a RT-PCR (Reverse Transcription - Polymerase Chain Reaction) and a Brucellosis-PCR as an example for a normal conventional PCR should be demonstrated and carried out by the participants. The PCR-equipment of both institutes should be commissioned during the workshops. An optimized laboratory infrastructure for PCR-investigations should be planned.

Meeting with the quality manager of Banja Luka: Identify improvements and level of preparedness of veterinary laboratory concerning accreditation in accordance with ISO 17025. Laboratories should finalize primary documentation needed for formal application in order to obtain ISO 17025 prior to next expert mission. Evaluate existing efforts of the QMS (Quality Management System) in development of QM documents and other materials as agreed on previous meeting, and assist them to continue with abovementioned activity in a proper direction.

Visit:

26. – 27. May 2008:

PCR Workshop at the veterinary institute Dr. Vaso Butozan, Banja Luka. The workshop started with theory a talk and a discussion about different questions concerning PCR-techniques. After the theoretical part the workshop went on with the practical course. On the first day the nucleic acid isolations of CSF-samples (Classical Swine Fever) for the PANPEST-RT-PCR and of Brucellosis-samples were demonstrated and performed by the participants. Furthermore the PANPEST-RT-PCR was demonstrated and performed.



On the second day the Brucellosis-PCR and the agarose gel electrophoresis were demonstrated and performed by the participants. The PANPEST-PCR worked very well and the results were evaluated. There was no result for the Brucellosis-PCR because of the improper positive control.



Finally there was a discussion about a proper laboratory structure for PCR-investigations and about the plans to involve the PCR into the routine diagnostics.

A certificate was issued for each participant.

List of participants:

Name	Institution
Milan Andrijanić	Veterinary Institute Mostar
Violeta Santrač	Veterinary Institute Banja Luka
Nina Zrnić	Veterinary Institute Banja Luka
Mirjana Šerval	Veterinary Institute Banja Luka
Radovan Babić	Veterinary Institute Banja Luka
Rodoljub Trkulja	Veterinary Institute Banja Luka

28. May 2008:

Meeting with the quality manager, violeta Santrač, of the the Veterinary Institute Dr. Vaso Butozan, Banja Luka. There was a good improvement of the quality management documents since the last expert mission. We discussed special questions of some quality management forms. For example the sample protocols, Standard Operating Procedures (SOP) and instrument cards were topics of this meeting. Furthermore the problems getting proper positive controls and ring trials for the different assay were covered within the meeting. A positive field sample can be used as a positive control, if it is standardized by a reference material. For the ring trials it was recommended to organize national ring trials by the different veterinary institutes, if other ring trials are too expensive or not available. Each institute might organize a ring trial for one or two methods.

29. – 30. May 2008:

PCR Workshop at the Veterinary Institute Bihac. The Workshop started with theory a talk and a discussion about different questions concerning PCR-techniques. After the theoretical part the workshop went on with the practical course. On the first day the nucleic acid isolations of CSF-samples (Classical Swine Fever) for the PANPEST-RT-PCR and of Brucellosis-samples were demonstrated and performed by the participants. Furthermore the PANPEST-RT-PCR was demonstrated and performed.

On the second day the Brucellosis-PCR and the agarose gel electrophoresis were demonstrated and performed. The Brucellosis-PCR worked very well and the results were evaluated with the participants. There was no result for the PCR PANPEST-PCR. The problem was discussed and identified as a contamination with RNases from the pipette-tips. There were no RNases-free tips in the laboratory available during the workshop.

A certificate was issued for each participant.

List of participants:

Name	Institution
Zlatko Jusufhodžić, DVM	Veterinary Institute Bihac
Osman Seferović, senior laboratory technician	Veterinary Institute Bihac

Dr. Andreas Moss

Annex: Sample certificate



CARDS Twinning – Project
BA05 IB AG 01
- Support to the State Veterinary Office -



Certificate of participation

This is to certify that

XXXX XXXX

was participant at the laboratory training workshop
“Recommendations and guidelines for laboratory organisation”
within the activity 5.5 at the 26th and 27th of May 2008.

The objective of the activity was to present the PCR technique.

The following subjects are covered in theory and exercise:

- ✿ Possibilities and limits of PCR
- ✿ DNA Isolation/RNA Isolation
- ✿ PCR (Polymerase Chain Reaction)
- ✿ RT (Reverse Transcription)
- ✿ Primer design
- ✿ Gel electrophoresis
- ✿ Realtime-PCR

Banja Luka 27th of May 2008

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Safety