ROBERT KOCH INSTITUT & supported by: Executive Agency for Health and Consumers

Individual Evaluation of the 1st Exercise on Detection of Highly Pathogenic Bacteria: Q-1

The infectious samples containing 4 target bacteria: *B. abortus, B. pseudomallei, B. melitensis* and *B. anthracis*, all of them were identified from mixed cultures.
The inactivated samples containing 5 target bacteria: *Y. pestis, F. t.* ssp. *holarctica, B. anthracis, B. suis* and *B. mallei* in various concentrations had to be detected from 2 different complex matrices.

The Robert Koch-Institut, Centre for Biological Security confirmed the successful attendance for:

Laboratory: **PZH: National Institute of Public Health / Hygiene**
Responsible Person: **Aleksandra Zasada**
Address: **Chocimska 24, 00-791 Warsaw, Poland**

Code / number: **24**

Q-1 March 2012	Following parameters were considered		reference (n= no. of participants)	value of the lab	mean value (of all participants)	attach-ment *	Colour Codes*
	Transport	Time	WC (n=28)	21 h	29,8 h	X_1	
		Temperature	+2°C - +8°C				
Infectious samples	Specificity & Sensitivity	correct positive detection	4 target bacteria (n=28)	100%	98%	X_5	X
		correct negative detection	6 target bacteria-like / contaminants (n=28)	100%	84%	X_5	X
	speed of detection (S.1-5)	Preliminary result, Genus level: Table-1	t in h (n=28)	5,75 h	8,4 h	X_3	
		Preliminary result, sp.- & ssp.- level: Table-2	t in h (n=28)	5,75 h	12,3 h	X_3	
	optional:	antibiotic susceptibility	CLSI-guidlines (n=13)	cf. attachment	cf. attachment	X_4	
Inactivated samples	Specificity & Sensitivity	correct positive detection	5 target bacteria (n=29)	100%	92%	X_5	X
		correct negative detection	5 target bacteria-like / contaminants (n=29)	100%	94%	X_5	X
	Sensitivity	quantitative analysis	100 % (n=10) equates within mean value ± SD, cf. suppl. sheet	not done	cf. attachment	X_2	

* published on the website: QUANDHIP/ collaboration platform/ EQAE 1

Comments:

Congratulation, you did an excellent start in the new project! You have done another big step forward by some changes of your molecular methods and with them you became a partner of the "green line" (colour code). Referring on your set of culture media, I couldn't find out what MALSE stands for. For easy selection of the target bacteria in mixed contaminated samples the accompanying microbiological sheet of the second EQADeBa exercise could serve as a guide (website); I would substitute PLET by Anthrax blood agar or Cereus Ident. for the cultivation of B. anthracis.

Evaluated by: Uschi Sauer (microbiologist in charge of QUANDHIP)
Coordinator of QUANDHIP: Roland Grunow