

# Measles and Rubella National Laboratory or sub-National Laboratory Checklist for WHO Accreditation **Section 1: General Review & Overall Findings**

Dates of <b>01/01</b>	/2023 – On-site Desl	k Review	Accreditation for		
Review: 31/12	/2023		calendar year: 2025		
Name of Laboratory of Communicable Diseases					
Laboratory: Republic of Estonia Health Board					
Address: Paldiski mnt 81, 10614 Tallinn					
			Country ESTONIA		
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janne.pullat@terviseamet.ee					
Head of Institute:	Brigit Lao	Head of Departm	nent: Janne Pullat		
Head of Measles and					
Rubella Laboratory:	Oksana Joamets				
Technical Supervisor	:: Oksana Joamets				
Number of laboratories under supervision: 1					
Name of					

Name of

Dr. Myriam Ben Mamou & Dovile Videbaek, WHO/Europe Reviewer(s):

Name of National Accreditation Authority (if appropriate) and current accreditation status from this authority (e.g. ISO15189 or other, provide documentation):

Estonian Accreditation Centre, EVS-EN ISO 15189:2012.

Accreditation Certificate No M004. Accreditation is valid until 29.06.2024

(http://eak.ee/dokumendid/pdf/kasitlusala/M004.pdf)

# **Summary of Accreditation Review**

### Recommendations (check one):

$\boxtimes$	Accredit: Laboratory meets all criteria				
	Measles:  ☐ Serology ☐ Detection RT-PCR/RT-qPCR ☐ Sequencing ☐ Cell Culture ☐ Measles testing not done	Rubella:  Serology  Detection RT-PCR/RT-qPCR  Sequencing  Cell Culture  Rubella testing not done			
	<b>Provisionally accredit</b> : Laboratory passed the most recent proficiency test, but needs to strengthen one or more of the remaining criteria (check off relevant criteria):				
	Measles:  Serology Detection RT-PCR/RT-qPCR Sequencing Cell Culture Measles testing not done  Do not accredit: Laboratory did not pa other performance indicators.	Rubella: Serology Detection RT-PCR/RT-qPCR Sequencing Cell Culture Rubella testing not done  ss the most recent proficiency test and/or did not meet			
	Measles:  Serology Detection RT-PCR/RT-qPCR Sequencing Cell Culture Measles testing not done	Rubella:  Serology  Detection RT-PCR/RT-qPCR  Sequencing Cell Culture Rubella testing not done			

### **Main General Findings:**

## **Findings:**

1.	Confirmatory test results of Sub-national Laboratories' referred symithin 14 days for ≥ 80% of specimens received:	100%	
2.	The laboratory reports monthly to WHO ( $\geq 80\%$ ):	Completeness: Timeliness:	100% 92%
3.	IgM tests are performed on at least 50 specimens annually:	Measles: Rubella:	253 150
4a.	Measles and Rubella IgM test results conducted for primary diagnostics are reported by the laboratory within 4 days of receipt, for $\geq 80\%$ of specimens	Measles: Rubella:	92.1% 100%
4b.	If molecular virus detection by real-time RT-PCR is performed in addition to serology, positive test results are reported by the laboratory within 4 days of receipt, for ≥80% of specimens	Measles: Rubella:	100% NA
5.	The accuracy of IgM detection is $\geq 90\%$ (NLs sending sera to RRL and SNLs to NLs for confirmatory testing) - 31 measles and 30 rubella samples	Measles: Rubella:	97% 100%
6а.	At least one run per month is performed for measles and rubella detection Realtime RT-PCR	Measles: Rubella:	Yes NA
6b.	At least one run per quarter is performed for measles and rubella GT RT-PCR, sequencing	Measles: Rubella:	Yes NA
7.	Score on most recent WHO Serology proficiency test is $\geq 90\%$ : PT panel number: <b>02302</b> Date reported: <b>26/01/2023</b>	Measles: Rubella:	100% 100%
8.	Performance on most recent WHO Molecular EQA is passed (P) /re-test (R) (provisionally passed)/fail (F) Panel number for measles: 23-1 Date reported: 28/12/2023 Panel number for rubella: Date reported: dd/mm/yyyy	Measles Mol detection: Measles Sequencing: Rubella Mol detection: Rubella Sequencing:	Passed Passed NA NA
9.	For labs that conduct virus sequencing: Virus sequencing is compand AND reported to WHO through MeaNS or RubeNS within 2 mor receipt of specimens, for ≥80% of the specimens appropriate for ganalysis	oleted on the of MeaNS;	100% (2/2) NA
10.	Score from on-site review of laboratory operating procedures and	practices is $\geq 80\%$ :	

#### Conclusion

- Excellent performance for serology and measles RT-PCR & sequencing
- Laboratory is commended for excellent monthly data reporting to WHO