

Draft template for biennial activity report from JCTLM Member organizations

All JCTLM Members are invited to attend the Members' and Stakeholders' Meeting, which is held once every two years, and submit a report of their activities in support of traceability in laboratory medicine over the preceding period.

For that purpose this template document provides guidance to JCTLM Members for drafting their biennial activity report. Organizations are invited to provide the information below for submission to the Executive Committee.

Organization Name: National Institute of Standards and Technology (NIST)

JCTLM Member status: National and Regional Member

Author(s): Karen Phinney

Author(s) email(s): karen.phinney@nist.gov

Period covered: 2024 – 2025

1. Major achievement(s) in support of standardization in laboratory medicine

NIST issued the following new or renewal clinical CRMs during the period of this report:

SRM 927g Bovine Serum Albumin (7% Solution)(Total Protein Standard)

SRM 956e Electrolytes in Frozen Human Serum

SRM 965c Glucose in Frozen Human Serum

SRM 1595a Triplamitin

SRM 1955a Homocysteine in Frozen Human Serum

SRM 2925 Recombinant Human Serum Albumin Solution (extension of expiration date)

SRM 3666 Albumin and Creatinine in Frozen Human Serum (commutability information to be added)

Certification reports are available on the NIST website. NIST developed a reference measurement procedure for urine albumin that is now listed in the JCTLM database (C21RMP9).

2. Planned activity(ies) in support of standardization in laboratory medicine

NIST is developing new and renewal CRMs including:

SRM 909d Frozen Human Serum

SRM 1950a Metabolites in Frozen Human Plasma

SRM 2921a Human Cardiac Troponin Complex

RM 8121 Cardiac Troponin I in Frozen Human Plasma

3. Promoting traceability in laboratory medicine

NIST provides information on new laboratory medicine CRMs through a variety of mechanisms, including press releases, social media, conference presentations, and stakeholder forums. NIST staff also participate in a variety of committees and working groups including:

JCTLM Working Group for Traceability, Education, and Promotion

JCTLM Task Force on Reference Measurement System Implementation

JCTLM Database Working Group

Standardization of Genome Amplification Techniques

IFCC Scientific Division Working Groups and Committees

CLSI Document Development Committees

4. Reference laboratory networks /collaborations focusing on developing /implementing reference measurement systems

NIST is participating in the IFCC Working Group on Standardization of Albumin Assay in Urine (WG-SAU) in collaboration with the U.S. National Institute of Diabetes and Digestive and Kidney Diseases. As part of this collaborative effort, NIST has developed a reference measurement procedure for urine albumin, a primary reference calibrator (SRM 2925), and a urine matrix CRM (SRM 3666).

NIST also participates in the IFCC Working Group on Standardization of Troponin I (WG-TNI), the Working Group on Commutability in Metrological Traceability (WG-CMT), and the Working Group on Biomarkers of Neurodegenerative Diseases (WG-BND).

5. Open questions and suggestions to be addressed by JCTLM

None

Note: The information of this report will be accessible publicly on the relevant JCTLM Members webpage, unless the author of the report states otherwise. In the case the organization does not authorize the publication of the report in part or full, the author will add a statement to clarify which part(s) of the report will /will not be rendered public.