

## 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.

<p><b>Organization:</b> National Institute of Standards and Technology (NIST)</p> <p><b>JCTLM Member status:</b> National Member</p> <p><b>Author(s):</b> K.W. Phinney</p> <p><b>Author(s) email(s):</b> karen.phinney@nist.gov</p> <p><b>Period covered:</b> 2018 – 2019</p>
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### 1. Major achievement(s) in support of standardization in laboratory medicine

NIST issued the following new or renewal CRMs during the past year:

SRM 914b Creatinine

SRM 1949 Frozen Human Prenatal Serum (total thyroxine, total triiodothyronine, copper, selenium, zinc, 25-hydroxyvitamin D<sub>2</sub>, 25-hydroxyvitamin D<sub>3</sub>, 3-epi-25-hydroxyvitamin D<sub>3</sub>, vitamin D binding protein)

SRM 971a Hormones in Frozen Human Serum (testosterone)

SRM 2365 BK Virus DNA Quantitative Standard (BK virus DNA copy number)

In addition, the Certificate of Analysis for SRM 1950 Metabolites in Frozen Human Plasma was updated to include a reference value for vitamin D binding protein.

Related publications:

M.H. Cleveland, N. Farkas, K.M. Kiesler, B. Toman, P.M. Vallone, "Certification of Standard Reference Material 2365 BK Virus DNA Quantitative Standard," NIST Special Publication 260-191

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

NIST continues to develop new and renewal CRMs to support comparability in laboratory medicine. CRMs currently in development include:

SRM 916b Bilirubin

SRM 955d Toxic Metals and Metabolites in Frozen Human Blood

SRM 2921a Human Cardiac Troponin Complex

SRM 2925 Recombinant Human Serum Albumin Solution

SRM 2969 Vitamin D Metabolites in Frozen Human Serum (Total 25-Hydroxyvitamin D Low Level)

SRM 3666 Albumin and Creatinine in Frozen Human Urine

### 3. Promoting traceability in laboratory medicine

"Developing CRMs for Diagnostics in Compliance with ISO 15194," PPTD 2018

“Applying Metrological Concepts to Clinical Chemistry,” Varenna Summer School 2019

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

NIST staff participate in a variety of committees and working groups including:

JCTLM Working Group for Traceability, Education, and Promotion

JCTLM Database Working Group

Standardization of Genome Amplification Techniques

IFCC Scientific Division Working Groups and Committees

Vitamin D Standardization Program

**5. Open questions and suggestions to be addressed by JCTLM**

N/A

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.