

Review Team Leader and Members of Working Group 1 of JCTLM
Reference Materials and Measurement Methods/Procedures

Analyte Category	Review Team Leader	Review Team Members
Blood cell counting	Keiji Fujimoto, Sysmex Corporation	Noami Culp, Beckman Coulter, Inc.
Blood Groupings	Susan Thorpe, National Institute for Biological Standards and Control (NIBSC), Division Haematology	John Allan, Alba Bioscience Toshiaki Mizuochi, National Institute of Infectious Diseases Kathleen Reis, Ortho-Clinical Diagnostics
Coagulation Factor	Elaine Gray, National Institute for Biological Standards and Control (NIBSC)	Craig Jackson, Hemosaga Diagnostics Corporation Barry Woodhams, Stago R&D Steve Kitchen, Royal Hallamshire Hospital, Department of Coagulation Steffen Rosen, Rossix
Drugs	Andre Henrion, Physikalisch-Technische Bundesanstalt (PTB)	Lothar Siekmann, University Hospital Bonn, DGKL Reference Laboratory
Electrolytes and Blood Gases	Gerhard Schumann, Medizinische Hochschule Hannover	Chandra Jain, Beckman Coulter, Inc. Stephen Long, National Institute of Standards and Technology (NIST) Christoph Ritter, Roche Diagnostics
Enzymes	Mauro Panteghini, University of Milan	Ferruccio Ceriotti, Diagnostica e Ricerca San Raffaele S.p.A. Wenxiang Chen, National Center for Clinical Laboratories, Ministry of Health Gerhard Schumann, Medizinische Hochschule Hannover Steve Wolf, Beckman Coulter, Inc. Hideo Misaki, KAINOS Lab. Inc David Armbruster, Abbott Laboratories Craig Jackson, Hemosaga Diagnostics Corporation
Metabolites and Substrates	Michael Welch, National Institute of Standards and Technology (NIST)	Xu Bei, National Institute of Metrology (NIM) Norihiko Kayahara, Kyowa Medex Co., Ltd. Steve Wolf, Beckman Coulter, Inc. Mary Kimberly, Centers for Disease Control and Prevention (CDC) David Armbruster, Abbott Laboratories Wenxiang Chen, National Center for Clinical Laboratories, Ministry of Health Lothar Siekmann, University Hospital Bonn, DGKL Reference Laboratory
Microbial Serology	Morag Ferguson, National Institute for Biological Standards and Control (NIBSC), Division of Endocrinology	Claude Giroud, Bio-Rad Laboratories Toshiaki Mizuochi, National Institute of Infectious Diseases Ian Sharp, Health Protection Agency
Non-electrolyte Metals	Lee Yu, National Institute of Standards and Technology (NIST)	Koichi Chiba, National Metrology Institute of Japan (NMIJ) Andrea Held, Institute for Reference Materials and Measurements (IRMM) Heinrich Kipphardt, Federal Institute for Materials Research and Testing (BAM) Patrick J. Parsons, New York State Department of Health Detlef Schiel, Physikalisch-Technische Bundesanstalt (PTB) Ralph Sturgeon, National Research Council Canada (NRC-C) Xingrong Zhang, Tsinghua University of China
Non-peptide Hormones	Heinz Schimmel, Institute for Reference Materials and Measurements (IRMM)	Lothar Siekmann, University Hospital Bonn Xu Bei, National Institute of Metrology (NIM) Wenxiang Chen, National Center for Clinical Laboratories, Ministry of Health
Nucleic Acids	Helen Parkes, LGC Ltd	Tomoshige Hori, Japan Bioindustry Association Heinz Schimmel, Institute for Reference Materials and Measurements (IRMM) Morag Ferguson, National Institute for Biological Standards and Control (NIBSC), Division of Endocrinology Roberta Madej, Roche Molecular Systems, Inc. Lisa Kalman, Centers for Disease Control and Prevention (CDC) Joan Gordon, Maine Molecular Quality Controls, Inc
Proteins	David Bunk, National Institute of Standards and Technology (NIST)	Katsuhiko Yamamoto, Fujirebio Inc. Chandra Jain, Beckman Coulter, Inc. A. Myron Johnson, University of North Carolina School of Medicine Mauro Panteghini, University of Milan Chris Burns, National Institute for Biological Standards and Control (NIBSC), Division of Endocrinology
Quality Systems	Craig Jackson, Hemosaga Diagnostics Corporation	David Duewer, National Institute of Standards and Technology (NIST) Robert Wielgosz, Bureau International des Poids et Mesures (BIPM) Katherine Sharpless, National Institute of Standards and Technology (NIST) Alan Squirrell, International Laboratory Accreditation Cooperation (ILAC)
Vitamins	Katherine Sharpless, National Institute of Standards and Technology (NIST)	Franz Ulberth, Institute for Reference Materials and Measurements (IRMM) Donald Wiebe, University of Wisconsin School of Medicine & Public Health Christine Pfeiffer, Centers for Disease Control and Prevention (CDC)

Review Team Leader and Members of Working Group 2 of JCTLM
Reference Measurement Services

Analyte Category	Review Team Leader	Review Team Members
Blood cell counting	Keiji Fujimoto, Sysmex Corporation	
Drugs	Andre Henrion, Physikalisch-Technische Bundesanstalt (PTB)	Lothar Siekmann, University Hospital Bonn, DGKL Reference Laboratory
Electrolytes and Blood Gases	Gerhard Schumann, Medizinische Hochschule Hannover	
Enzymes	Mauro Panteghini, University of Milan	Ferruccio Ceriotti, Diagnostica e Ricerca San Raffaele S.p.A. Wenxiang Chen, National Center for Clinical Laboratories, Ministry of Health Gerhard Schumann, Medizinische Hochschule Hannover Craig Jackson, Hemosaga Diagnostics Corporation
Metabolites and Substrates	Michael Welch, National Institute of Standards and Technology (NIST)	Mary Kimberly, Centers for Disease Control and Prevention (CDC) Wenxiang Chen, National Center for Clinical Laboratories, Ministry of Health Lothar Siekmann, University Hospital Bonn, DGKL Reference Laboratory Gerhard Schumann, Medizinische Hochschule Hannover
Non-electrolyte Metals	Lee Yu, National Institute of Standards and Technology (NIST)	Koichi Chiba, National Metrology Institute of Japan (NMIJ) Andrea Held, Institute for Reference Materials and Measurements (IRMM) Heinrich Kipphardt, Federal Institute for Materials Research and Testing (BAM) Patrick J. Parsons, New York State Department of Health Detlef Schiel, Physikalisch-Technische Bundesanstalt (PTB) Ralph Sturgeon, National Research Council Canada (NRC-C) Xingrong Zhang, Tsinghua University of China
Non-peptide Hormones	Heinz Schimmel, Institute for Reference Materials and Measurements (IRMM)	Lothar Siekmann, University Hospital Bonn Wenxiang Chen, National Center for Clinical Laboratories, Ministry of Health
Proteins	David Bunk, National Institute of Standards and Technology (NIST)	Mauro Panteghini, University of Milan