

**Maine Center for Osteoporosis Research and Education Laboratory
St. Joseph Hospital, 360 Broadway, PO Box 403 Bangor, ME 04402-0403
(207) 907-1663 (207) 907-1910 fax**

**Methods of Analysis, Tests and Sample Requirements,
Pricing and Shipping Instructions**

Methods of Analysis

The MeCORE Laboratory, for the most part, uses commercially available research kits for the analysis of samples. Assays are set up following the manufacturer's recommendations.

Quality Control Protocol

*For all assays, the samples, assay controls and standards are measured in duplicate.

*The Coefficient of Variance (CV) is calculated for each set of sample duplicates analyzed. The CV must meet the laboratory's QC criteria established for the assay or the sample will be re-analyzed (if sufficient volume is available). The average concentration of the sample duplicates (meeting the QC requirements) is reported to the Principal Investigator.

*Control samples provided by the kit manufacturer are analyzed with each assay. The performance of the assay is verified by confirming that the controls are within the manufacturer's acceptable ranges.

*Our own in-house control is analyzed simultaneously with each batch of samples assayed. We use background strains of mice (most often C57BL/6JBm) as in-house assay controls for non-human studies and human serum as an in-house control for human studies.

*Based on our in-house control, the intra-assay CV is calculated for each assay run. The CV must meet the laboratory's criteria for the assay or the samples are re-analyzed (if sufficient volume is available). The intra-assay CV is reported to the Principal Investigator.

*In the case of large projects requiring the use of multiple kits for a particular analysis, the inter-assay CV (based on our in-house control) is calculated and reported to the Principal Investigator.

Tests and Sample Requirements

All samples should be stored and shipped frozen (storage at -80°C is preferable).

TEST	DISTRIBUTOR (Catalog #)	ASSAY TYPE	SAMPLE VOLUME	SPECIMEN TYPE
IGF-I	ALPCO (22-IGF-R21)	RIA	35 µl	human serum/plasma
IGFBP-1	DSL (7800)	IRMA	150 µl	human serum
IGFBP-2	ALPCO (22-IGF-E05)	ELISA	35 µl	human serum/plasma
IGFBP-3	DSL (6600)	IRMA	35 µl	human serum
PINP	IDS (OD-67034)	RIA	220 µl	human serum
TRACP 5b	IDS (SB-TR201A)	ELISA	420 µl	human serum/plasma
25-Hydroxy Vitamin D	IDS (AA-35F1)	RIA	120 µl	human serum/plasma
Serum NTx	Inverness Med (9021)	ELISA/EIA	120 µl	human serum
sRANKL (Total)	ALPCO (30-1016)	ELISA	120 µl	human serum/plasma
OPG	ALPCO (04-BI-20402)	EIA	220 µl	human serum/plasma
BAP	IDS (AC-20F1)	EIA	220 µl	human serum
Dkk-1	R&D (DKK100)	EIA	220 µl	human serum/plasma
IGF-I	ALPCO (22-IGF-R21)	RIA	35 µl	mouse, rat serum/plasma
IGFBP-2	ALPCO (22-MIGF-E08)	EIA	35 µl	mouse, rat serum
IGFBP-3	ALPCO (22-MIGF-E031)	EIA	35 µl	mouse, rat serum
Osteocalcin	ALPCO (31-50-1300)	IRMA	50 µl	mouse serum/plasma
TRACP 5b	IDS (SB-TR103)	ELISA	120 µl	mouse serum
PINP	IDS (AC-33F1)	EIA	35 µl	mouse, rat serum/plasma
Corticosterone	IDS (AC-14F1)	EIA	75 µl	mouse, rat serum/plasma
Leptin	Millipore (EZML-82K)	ELISA	60 µl	mouse serum/plasma
Adiponectin	Millipore (EZMADP-60K)	ELISA	35 µl	mouse serum/plasma
Insulin	Millipore (EZRMI-13K)	ELISA	60 µl	mouse, rat serum/plasma
IGF-I	ALPCO (22-IGF-R21)	RIA	0.5 ml	conditioned media

*Conditioned media: additional assays may be available, please contact the lab.

Sample volume: if suggested volume is not available, please contact the lab for alternate instructions.

Plasma: contact the lab for sample collection requirements.

Kit inserts are available at the following websites:

ALPCO: American Laboratory Products, Inc. <http://www.alpco.com/>

DSL (BeckmanCoulter): Diagnostic Systems Labs, Inc. http://www.dslabs.com/about_us/Default.aspx

IDS: Immunodiagnostic Systems, Inc. <http://www.idsplc.com/en-us/home/>

Inverness Medical: <http://www.osteomark.com/default.aspx>

Millipore: <http://www.millipore.com/index.do>

R&D: R & D Systems <http://www.rndsystems.com/>

**New assays are continually being added to our selection of available tests.
Please contact the laboratory if you are interested in an assay that is not
listed above and we may be able to accommodate you.**

Price Information

If you are interested in collaboration with Dr. Rosen and the MeCORE Laboratory, please contact us directly to obtain the most current information on assay prices. Laboratory contact person: Julie Burgess (207) 907-1663
julie.burgess@sjhhealth.com

Shipping Address and Instructions

Send all packages to the attention of Julie Burgess to be sure that the shipment is delivered directly to the laboratory.

Sample Shipping Address

Julie Burgess
MeCORE Lab
St Joseph Hospital
360 Broadway
Bangor, ME 04401

Lab Phone: (207)907-1663

Packing Instructions

- *Ship no later than on a Wednesday since the lab is closed on weekends and shipping delays could cause thawed specimens.
- *Pack on plenty of dry ice and seal the cooler lid with packing tape. This will increase the chance that the specimens will still be frozen upon arrival should the shipment be delayed.
- *Pack specimens in sample boxes inside the shipping cooler, as plastic bags often break when in contact with dry ice.
- *Include (or email) a copy of the sample inventory. This will help us confirm that all shipments are complete.
- *Please email Julie at julie.burgess@sjhhealth.com or phone (207) 907-1663 when you ship the samples so that she can be sure someone will be available to receive and unpack the specimens.

A Special Note Concerning Human Subject Studies

Prior to shipping human material to the MeCORE Laboratory we ask that you please complete a "Statement of Intent to Establish a Consortium Agreement" form (Consortium Agreement) for our files. In addition to the form, we also ask that you send a copy of the IRB approval for the study, as well as, a copy of the patient informed consent to the laboratory. All information will be kept confidential. For more details on submitting these items please contact Julie Burgess at the lab.