
Lab Dept: Urine/Stool

Test Name: **CALCIUM/CREATININE RATIO, RANDOM URINE**

General Information

Lab Order Codes: CCRA

Synonyms: Ca/Creat ratio, Random Urine

CPT Codes: 82340 – Calcium; urine quantitative, timed
82570 – Creatinine, other source

Test Includes: Urine calcium in mg/dL, Urine creatinine in mg/dL, Calcium/creatinine ratio

Logistics

Test Indications: The amount of calcium excreted into the urine is a measure of renal function, intestinal absorption, skeletal resorption, renal filtration and dietary intake.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280
STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 day

Special Instructions: [See Collection](#)

Specimen

Specimen Type: Urine, random collection

Container: Plastic leakproof container (No preservative)

Draw Volume: 2 - 4 mL from a random urine collection

Processed Volume: Minimum: 1 mL urine

Collection: A random urine sample may be obtained by voiding into a urine cup and is often performed at the laboratory. Make sure all specimens submitted to the laboratory are properly labeled with the patient's name, medical record number and date of birth.

Refrigerate specimen during and after collection.

Special Processing: Lab Staff: Acidify calcium aliquot before analysis to a pH of 1 - 2 with 6N HCL.

Patient Preparation: None

Sample Rejection: Unlabeled or mislabeled specimens

Interpretive

Reference Range: There are no reference values established for random specimens.

Critical Values: N/A

Limitations: N/A

Methodology: O-Cresolphthalein Complexone/Colorimetric; Alkaline Picrate/Kinetic

References: CA Flex reagent cartridge insert (RXL), PN 717123.002 – Version M, Rev 2013-01-11

CA Flex reagent cartridge insert (Vista) PN 781023.001 – Version E , Rev 2013-07-24

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition

Biorad Multiquel Assayed Chemistry Control Product Insert, Bio-Rad Laboratories, Irvine, CA 92618

Biorad Liquichek Unassayed Chemistry Control Product Insert, Bio-Rad Laboratories, Irvine, CA 92618

EZCR Flex® reagent cartridge insert sheet PN 717270.003 Issue Date 2011-03-07 Rev. C

Clinical Significance, Dade Behring Inc., Glasgow Business Community, Mailbox 531, P.O. Box 6101, Newark, Delaware 19714

Pediatric Reference Intervals (2007) Sixth Edition, AACC Press, Washington DC

Biorad Liquichek Unassayed Chemistry Control (Human) product insert, Irvine, CA 92618

Updates:

9/17/2014: Updated references.