

## Overview

### Useful For

Urine C-peptide is measured when a continuous assessment of B-cell function is desired or frequent blood sampling is not practical (eg, in children). C-peptide excretion in urine has been used to assess pancreatic function in gestational diabetes and in patients with unstable glycemic control in insulin-dependent diabetes mellitus (IDDM).

### Method Name

Electrochemiluminescence immunoassay (ECLIA)

### NY State Available

Yes

## Specimen

### Specimen Type

Urine 24hr

### Necessary Information

**24-Hour volume (in milliliters) is required.**

### Specimen Required

**Patient Preparation:** It is recommended to ask all patients who may be indicated for this test about biotin supplementation. Patients should be cautioned to stop biotin consumption at least 72 hours prior to the collection of a sample.

**Collection Container/Tube:** Clean, plastic 24-hour urine collection container.

**Submission Container/Tube:** Plastic urine container.

**Specimen Volume:** 10 mL

#### Collection Instructions:

1. Instruct the patient to void at 8 AM and discard the specimen.
2. Collect all urine including the final specimen voided at the end of the 24-hour collection period (ie, 8 AM the next morning) in a 24-hour urine collection container. pH should be 4 to 7.
3. Refrigerate specimen during the 24-hour collection.
4. Aliquot and send 10 mL urine in plastic urine container frozen.
- 5. 24-Hour collection volume is required.**

### Specimen Minimum Volume

1 mL (**Note:** this volume does not allow for repeat testing.)

### Reject Due To

pH <3 or pH >8	Reject
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**Specimen Stability Information**

Specimen Type	Temperature	Time	Special Container
Urine 24hr	Frozen (preferred)	14 days	
	Refrigerated	14 days	

**Clinical & Interpretive****Reference Values**

C-Peptide, Urine: Not Established ng/mL

C-Peptide, Urine 24 hr: 17.2-181.0 ug/24 hr

**Cautions**

This test may exhibit interference when sample is collected from a person who is consuming a supplement with a high dose of biotin (also termed as vitamin B7 or B8, vitamin H, or coenzyme R).

It is recommended to ask all patients who may be indicated for this test about biotin supplementation. Patients should be cautioned to stop biotin consumption at least 72 hours prior to the collection of a sample.

**Performance****PDF Report**

No

**Day(s) Performed**

Monday through Saturday

**Report Available**

4 to 8 days

**Performing Laboratory Location**

LabCorp Burlington

**Fees & Codes****Fees**

- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact [Customer Service](#).

**CPT Code Information**

84681

**LOINC® Information**

Test ID	Test Order Name	Order LOINC® Value
FCPEU	C-Peptide, 24-Hour Urine	Not Provided

Result ID	Test Result Name	Result LOINC® Value
Z6358	C-Peptide, Urine	1987-7
Z6359	C-Peptide, Urine 24hr	27944-8
Z6360	Urine Volume (Milliliters)	Not Provided