

## Overview

### Method Name

Direct Radioimmunoassay

### NY State Available

No

## Specimen

### Specimen Type

Z-Tube Plasma

### Specimen Required

#### Patient preparation:

1. Fasting: 10 to 12 hours
2. Patient should not be on any antacid medication or medications that affect gastroentero-intestinal function, if possible, for at least 48 hours prior to collection.

**Supplies:** Z-Tube Preservative Inter Science Institute (T701)

**Collection Container/Tube:** Z-tube

**Submission Container/Tube:** Plastic vial

**Specimen Volume:** 3 mL plasma

#### Collection Instructions:

1. Draw 10 mL of blood directly into special Z-tube
2. As soon as possible, centrifuge and aliquot plasma into a plastic vial.
3. Freeze immediately after separation.
4. Ship frozen.

### Specimen Minimum Volume

Plasma: 1 mL

### Reject Due To

Gross hemolysis	Reject
Gross lipemia	Reject
Gross icterus	Reject
Specimens not collected in Z-Tube	Reject

**Specimen Stability Information**

Specimen Type	Temperature	Time	Special Container
Z-Tube Plasma	Frozen	180 days	

**Clinical & Interpretive****Clinical Information**

Neurotensin is a 13 amino acid peptide produced primarily by endocrine cells of the ileal mucosa. Physiological actions of neurotensin include hypertension, vasodilation, hyperglycemia, and inhibition of gastric motility. Its C-terminus is similar to angiotensin I. It is a potent analgesic affecting hypothermia, muscle relaxation, and decreased motor activity. Pancreatic polypeptide secretion is strongly stimulated by neurotensin. Neurotensin appears to cause the release of luteinizing hormone-releasing hormone and corticotropin releasing hormone effecting the release of luteinizing hormone, follicle stimulating hormone, and ACTH but not thyroid-stimulating hormone or growth hormone. Neurotensin also stimulates pancreatic bicarbonate and intestinal secretion. Neurotensin levels are stimulated by food and bombesin. Elevated levels have been found in pancreatic endocrine tumors, oat cell, squamous cell, and adenocarcinomas. Elevated levels have been found to cause watery diarrhea.

**Reference Values**

50-100 pg/mL

**Cautions**

The reference interval has been established using the ISI preservative indicated for this test. No other sample types are acceptable.

Values obtained with different methods, laboratories, or kits cannot be used interchangeably with the results on this report. The results cannot be interpreted as absolute evidence of the presence or absence of malignant disease.

**Clinical Reference**

1. Shulkes A, Chick P, Wong H, Walsh JH. A radioimmunoassay for neurotensin in human plasma. *Clin Chim Acta*. 1982;125(1):49-58. doi:10.1016/0009-8981(82)90044-4
2. Carraway RE, Mitra SP, Feurle GE, Hacki WH. Presence of neurotensin and neuromedin-N within a common precursor from a human pancreatic neuroendocrine tumor. *J Clin Endocrinol Metab*. 1988;66(6):1323-1328. doi:10.1210/jcem-66-6-1323

**Performance****PDF Report**

Referral

**Day(s) Performed**

Monday, Thursday

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**Report Available**

12 to 16 days

**Performing Laboratory Location**

Inter Science Institute

**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](#).

**Test Classification**

This test has not been cleared or approved by the US Food and Drug Administration.

This test was developed and its performance characteristics determined by Inter Science Institute. Values obtained with different methods, laboratories, or kits cannot be used interchangeably with the results on this report. The results cannot be interpreted as absolute evidence of the presence or absence of malignant disease.

**CPT Code Information**

83519

**LOINC® Information**

Test ID	Test Order Name	Order LOINC® Value
FNEU2	Neurotensin	2655-9

Result ID	Test Result Name	Result LOINC® Value
FNEU2	Neurotensin	2655-9