Lab Dept: Serology
Test Name: PARAINFLUENZA ANTIBODY

General Information

Lab Order Codes: PARI
Synonyms: Parainfluenza Virus Types 1, 2, 3
CPT Codes: 86790 x3 – Antibody, virus not elsewhere specified
Test Includes: Parainfluenza virus types 1, 2, & 3 total antibody

Logistics

Test Indications: To support the diagnosis of parainfluenza infection.
Lab Testing Sections: Serology - Sendouts
Referred to: Mayo Medical Laboratories (MML Test:/PARAV) forward to Focus Technologies (Test: 40755)
Phone Numbers: MIN Lab: 612-813-6280
STP Lab: 651-220-6550
Test Availability: Daily, 24 hours
Turnaround Time: 4 – 9 days, test set-up Monday – Friday.
Special Instructions: N/A

Specimen

Specimen Type: Blood
Container: SST (Gold, marble or red) tube
Draw Volume: 3 mL (Minimum: 1.5 mL) blood
Processed Volume: 1 mL (Minimum: 0.5 mL) serum
Collection: Lab staff: Centrifuge specimen; remove serum aliquot in a screw-capped round bottom plastic vial. Store and ship at ambient room temperature. Forward promptly.
Special Processing: Routine venipuncture

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen

**Interpretive**

**Reference Range:**

- <1:8 Antibody not detected
- ≥1:8 Antibody detected

Single titers of ≥1:64 are indicative of recent infection. Titers of 1:8 to 1:32 may be indicative of either past or recent infection, since complement fixation antibody levels persist for only a few months. A four-fold or greater increase in titer between acute and convalescent specimens confirms the diagnosis. After initial infection, antibody responses at a later date are often heterotypic and exhibit cross-reactivity with other paramyxoviruses (e.g. mumps).

**Critical Values:** N/A

**Limitations:** Heterotypic rises in parainfluenza titers may occur in infections with other viruses. Infant antibody response may be undetectable. Parainfluenza serology is not recommended for clinical diagnostic purposes.

**Methodology:** Complement fixation (CF)

**References:**

- Mayo Medical Laboratories Web Page November 2017
- Focus Technologies Web Page November 2017

**Updates:**

- 3/18/2004: Test moved from Lab Corp (Viromed) to Mayo Medical Laboratories forward to Focus Technologies. Note: Test now measures total antibody.
- 10/6/2006: CPT code previously listed as 86171 x3.
- 11/7/2017: Collection container update