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**Lab Dept:** Serology

**Test Name:** POLIOVIRUS ANTIBODY

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***General Information***

**Lab Order Codes:** PVIS

**Synonyms:** Poliovirus Antibody, Neutralization

**CPT Codes:** 86382 x2 – Neutralization, virus

**Test Includes:** Poliovirus Type 1 & 3 Antibody, each reported as a titer.

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***Logistics***

**Test Indications:** Assessing immunity following poliovirus vaccination, as well as determining the poliovirus serotype responsible for recent poliovirus infection. Also serves as an aid for diagnosing immune deficiency disorders.

**Lab Testing Sections:** Serology - Sendouts

**Referred to:** Mayo Medical Laboratories forward to Focus Diagnostics (MML Test: FPOLO)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 3 - 7 days, test set-up Monday and Thursday

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Blood

**Container:** SST (Gold, marble or red top tube)

**Draw Volume:** 3 mL (Minimum: 1.5 mL) blood

**Processed Volume:** 1 mL (Minimum: 0.5 mL) serum

**Collection:** Routine venipuncture

**Special Processing:** Lab Staff: Centrifuge specimen, remove serum aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimen

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### ***Interpretive***

**Reference Range:** Polio 1 Titer: <1:8  
Polio 3 Titer: <1:8

The presence of neutralizing serum antibodies (titers 1:8 up to >1:128) against polioviruses implies lifelong immunity. Some persons without detectable titers (<1:8) may also be immune as demonstrated by elicitation of a secondary-type serum antibody response upon challenge with live polio vaccine.

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Culture/Neutralization

**References:** [Mayo Medical Laboratories](#) July 2016

[Focus Diagnostics](#) July 2016

**Updates:** 3/2/2004: Test moved from Lab Corp to MML (forward to Focus Laboratory). Test previously measured IgG antibody and now measure total antibody.  
8/20/2012: Updated MML order code and reference range information.  
12/16/2013: Method update, previously listed as Complement Fixation.  
6/27/2016: Polio Virus 2 is no longer reported per the reference lab.