



# Test Definition: ADEVL

Alzheimer Disease Evaluation, Spinal Fluid

**Reporting Title:** Alzheimer's Disease Evaluation, CSF

**Performing Location:** Mayo Clinic Laboratories - Rochester Superior Drive

## Specimen Requirements:

### Supplies:

Alzheimer's Disease Evaluation (ADEVL) Collection Kit (T836)

CSF AD Biomarker Tubes (T833; also included in T836)

### Container/Tube:

**Preferred:** Sarstedt CSF False Bottom Tube 63.614.625 (2.5 mL)

**Acceptable:** Sarstedt 72.703.600 (1.5 mL) or Sarstedt 72.694.600 (2 mL)

**Specimen Volume:** 1.5 to 2.5 mL

### Collection Instructions:

1. Perform lumbar puncture and discard the first 1 to 2 mL of cerebrospinal fluid (CSF).
2. Collect CSF directly into one of the listed collection tubes until the tube is at least 50% full.\*
3. Send CSF specimen in original collection tube. Do **not aliquot**.

**Note: Polystyrene collection tubes are not acceptable.** Exposure of CSF to polystyrene tubes may result in falsely low Abeta42 concentrations. For more information see Cautions.

\*The Alzheimer's Association consensus protocol for handling of CSF for clinical measurements of Abeta42 and tau recommends using the drip method for CSF collection and directly collecting into a low-bind polypropylene tube. Although some clinicians prefer the syringe pull method due to speed of collection, the drip method reduces the risk of Abeta42 binding to the plastic of any syringe used.

4. Collection instructions can also be found on [Spinal Fluid Specimen Collection Instructions for Alzheimer Disease Evaluation](#) (T967).

## Forms:

If not ordering electronically, complete, print, and send a [Neurology Specialty Testing Client Test Request](#) (T732) with the specimen.

Specimen Type	Temperature	Time	Special Container
CSF	Refrigerated (preferred)	14 days	BlueTop SARSTEDT
	Ambient	12 hours	BlueTop SARSTEDT
	Frozen	60 days	BlueTop SARSTEDT

## Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
PTABR	p-Tau/Abeta42	Numeric	ratio	41027-4
ADINT	AD Interpretation	Alphanumeric		69048-7
AB42P	Abeta42	Numeric	pg/mL	33203-1
PTAUP	Phospho-Tau(181P)	Numeric	pg/mL	72260-3
TTAUP	Total-Tau	Numeric	pg/mL	30160-6

LOINC® and CPT codes are provided by the performing laboratory.

**Supplemental Report:**

No

**CPT Code Information:**

AB42P-82234

PTAUP-84393

TTAUP-84394

**Reference Values:**

Beta-amyloid (1-42) (Abeta42): &gt;834 pg/mL

Total-Tau: &lt; or =238 pg/mL

Phosphorylated-Tau 181: &lt; or =21.6 pg/mL

p-Tau/Abeta42: &lt; or =0.028