

**-20 °C Protocol**  
**Assay of TAU and P-TAU proteins**  
**and amyloid A $\beta$ 1-42 and A $\beta$ 1-40 peptides in CSF**

**Neuro: instructions for the assay of Alzheimer-disease biomarkers**

**INTERNATIONAL DIVISION**

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**IN THE CLINICAL DEPARTMENT**
**1 Complete:**

- clinical information sheet,
- analysis request form,
- pre-analytical monitoring sheet

**2 Always specify the context of the request:**

1. Diagnosis of Alzheimer's disease (AD);
2. Differential diagnosis of AD and: Creutzfeldt-Jakob disease (CJD); FTD; LBD; other degenerative dementias (PSP, CBD etc.) and other non-degenerative dementias.

**NB: The protein 1433 can be assayed using the same tube (attach an additional clinical information sheet for the InVS)**

**3 Sampling of the LP:**

- use the special tube supplied by the Neurobiology laboratory: 10 ml polypropylene tube (Ref. 62 610 201, supplier Sarstedt)
- Minimum 3 mL of CSF

**4 Send the sample to your laboratory immediately with the completed documents.**
**IN THE DISPATCHING LABORATORY**
**1 Centrifuge** the sample for 10 minutes at 2000g at 12 +/- 5 °C

**2 Aliquot** the supernatant into 6 fractions of 500  $\mu$ l into the micro tubes supplied by Biomnis

**3 Freeze** the 6 aliquots at -20°C

**4 Complete** the pre-analytical monitoring sheet

**NB 1: The sample can be stored:**

- **before being centrifuged:** maximum 4 hours at ambient temperature
- **after being centrifuged,** the decanted supernatant can be stored at -20 °C for 2 months maximum

**NB 2: the protein 1433 can be assayed using the same tube.** In this case, **also attach the specific INVS clinical sheet** for the diagnosis of CJD.

**TRANSPORT**

Send the sample frozen at -20 °C to Laboratory Biomnis.

**NB: The amyloid A $\beta$ 1-40 peptide may be added as a second-line test to the three other markers, depending on their results and the clinical context.**

**ALWAYS ATTACH TO THE SAMPLE**

- The completed pre-analytical monitoring form
- The clinical information form (and the specific CJD sheet in case of joint request for Protein 14.3.3)
- The analysis request form

**TURNAROUND TIME** 2 months (except p1433: 3 weeks).

