

**Biomnis** 

-20 °C Protocol Assay of TAU and P-TAU proteins and amyloid Aβ1-42 and Aβ1-40 peptides in CSF

Neuro: instructions for the assay of Alzheimer-disease biomarkers

#### INTERNATIONAL DIVISION

17/19, avenue Tony Garnier • BP 7322 • 69357 Lyon cedex 07 Tel.: **+33 (0)4 72 80 23 85** • Fax: **+33 (0)4 72 80 73 56** • E-mail: international@biomnis.com

### IN THE CLINICAL DEPARTMENT

# • Complete:

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

# **O** 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)

# **6** 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
- 3 Send the sample to your laboratory immediately with the completed documents.

# IN THE DISPATCHING LABORATORY

- Centrifuge the sample for 10 minutes at 2000g at 12 +/- 5 °C
- Aliquot the supernatant into 6 fractions of 500 µl into the micro tubes supplied by Biomnis
- 6 Freeze the 6 aliquots at -20°C
- 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 Aβ1-40 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).





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PATIENT	
First name:	
Surname:	
	Patient label
IN THE CLINICAL DEPARTMENT	
Sample in the polypropylene tube	
Time: : Line hrs Line min Send immediately to the on-site laboratory before 3 p.m. (<2 hrs)	
AT THE LAB WHERE SAMPLE WAS COLLECTED	
Verification of the polypropylene sample tube	
If no = Analysis cannot be performed	
Sample to be processed within 2 hours	
Time of receipt:	hrs min
• Centrifuge for 10 min at 2000g 12 +/− 5 °C > Time of refrigerated centrifuging: hrs min	
<ul> <li>Decant the supernatant into 6 fractions of 500 µl</li> </ul>	
into the micro tubes (supplied in the kit) Time of	f decanting: hrs min
• Freeze to -20 °C Time of free	zing to -20 °C: L h L min
Protein content g/L Cell count : RBC WBC	
Dispatch: frozen to -20 °C> Date of the second	