

To make your
workflow excellent.



CSF false-bottom tubes

The new standard for Alzheimer's disease diagnostics



CSF false-bottom tubes – setting new standards in the early detection of Alzheimer’s disease



The drug treatment of Alzheimer’s disease has made significant strides in recent years, particularly through the development of antibody drugs that specifically intervene in the disease processes. Examples of this are lecanemab (Leqembi) and aducanumab (Aduhelm). These new therapeutic approaches reinforce the importance of early diagnosis in order to maximise treatment success.

Particularly in the early stages of dementia, the determination of Alzheimer’s disease biomarkers (beta-amyloid, total tau & phospho-tau) increasingly supports CSF-based neurochemical dementia diagnostics.

The new CSF false-bottom tubes create the optimum conditions for reliable pre-analytics to support current developments in research, diagnostics and treatment of Alzheimer’s disease.

- Excellent recovery thanks to low binding properties
- Routine-use primary container for sample collection & automated analytics
- Patient-friendly sample volume of 2.5 ml
- Cost-effective alternative to PET scan
- Reliable pre-analytics for optimum sample integrity



Optimised analytics due to low binding properties

CSF tests offer a high-quality and well-established diagnostic procedure for Alzheimer's, especially in the early stages of the disease. They are a valuable alternative to PET scans (nuclear medicine amyloid positron emission tomography) and are increasingly recommended in clinical guidelines.

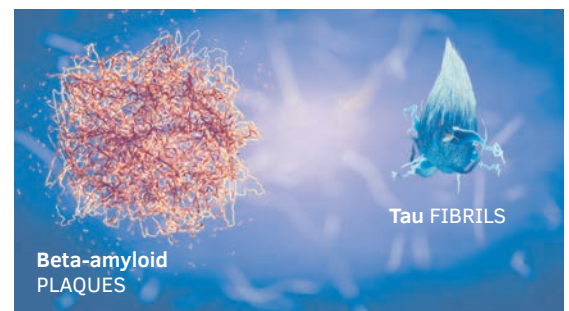
The biomarkers for Alzheimer's disease are able to bind to surfaces, in turn complicating pre-analytical conditions. This applies in particular to beta-amyloid fragments.¹⁻⁵ Binding occurs very quickly, with a concentration loss (analyte loss) of 20% detected after only 5 minutes.³

In light of this, a new CSF sample tube was developed using a special material. For the first time, the SARSTEDT CSF false-bottom tubes combine optimal low binding properties with the requirements of a routine-use sample tube for a very special sample material. This enables greater comparability of the analytical results.

Pre-analytics & analytics

The purpose of a standardised pre-analytical protocol for AD diagnostics is that it helps to minimise systematic influences, for example from pre-analytics, and thereby enables consistent cutoff values.

The CSF false-bottom tubes provide the best recovery of Alzheimer's disease biomarkers with Roche's new generation of immunoassays. Based on this, they have been bindingly defined by Roche as "the CSF primary container" and are also recommended as the optimised standard in the new standardised pre-analytical protocols.¹



CSF false-bottom tubes

Material	Volume	Length & diameter	Design	Packaging	Order no
Polypropylene	2.5 ml	75 x 13 mm	Low Binding	Individually wrapped, sterile 100/outer box	63.614.625

References:

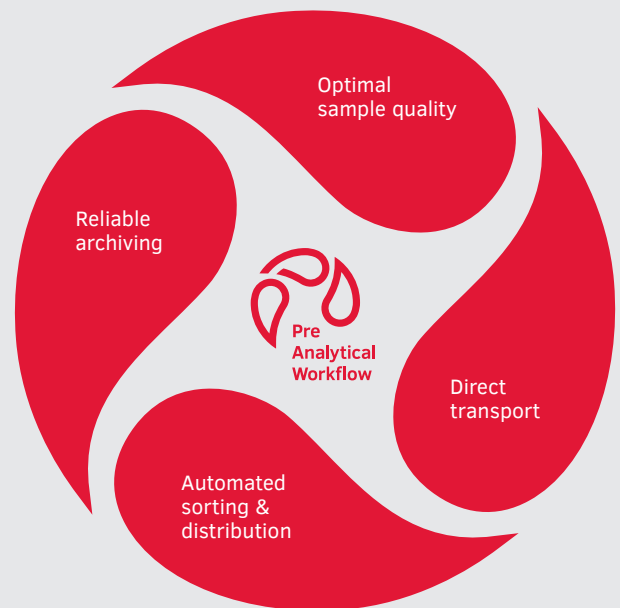
- 1 Hansson O, Rutz S, Zetterberg H, et al. Pre-analytical protocol for measuring Alzheimer's disease biomarkers in fresh CSF; Alzheimer Dement. 2020;12:e12137. <https://doi.org/10.1002/dad2.12137>
- 2 Toombs J, Paterson RW, Lunn MP, Nicholas JM, Fox NC, Chapman MD, et al. Identification of an important potential confound in CSF AD studies: aliquot volume. Clin Chem Lab Med 2013; 51:2311-7.
- 3 Perret-Liaudet A, Pelpel M, Tholance Y, Dumont B, Vanderstichele H, Zorzi W, et al. Risk of Alzheimer's disease biological misdiagnosis linked to cerebrospinal collection tubes. J Alzheimers Dis 2012;31:13-20.
- 4 Bjerke M, Portelius E, Minthon L, Wallin A, Ancharsater H, Ancharsater R, et al. Confounding factors influencing amyloid beta concentration in cerebrospinal fluid. Int J Alzheimers Dis 2010;2010:1-11.
- 5 Lewczuk P, Beck G, Esselmann H, Bruckmoser R, Zimmermann R, Fiszer M, et al. Effect of sample collection tubes on cerebrospinal fluid concentrations of tau proteins and amyloid beta peptides. Clin Chem 2006;52:332-4.

Pre-analytical workflow made by SARSTEDT

Utilise the synergy of our
coordinated systems.

If you have any questions:
We'd be happy to help!

Visit our website: www.sarstedt.com



SARSTEDT AG & Co. KG

Sarstedtstraße 1
D-51588 Nümbrecht

Phone: +49 2293 305 0

export@sarstedt.com
www.sarstedt.com

Discover the 360°
solutions for your
pre-analytics by
SARSTEDT



workflow.sarstedt.com