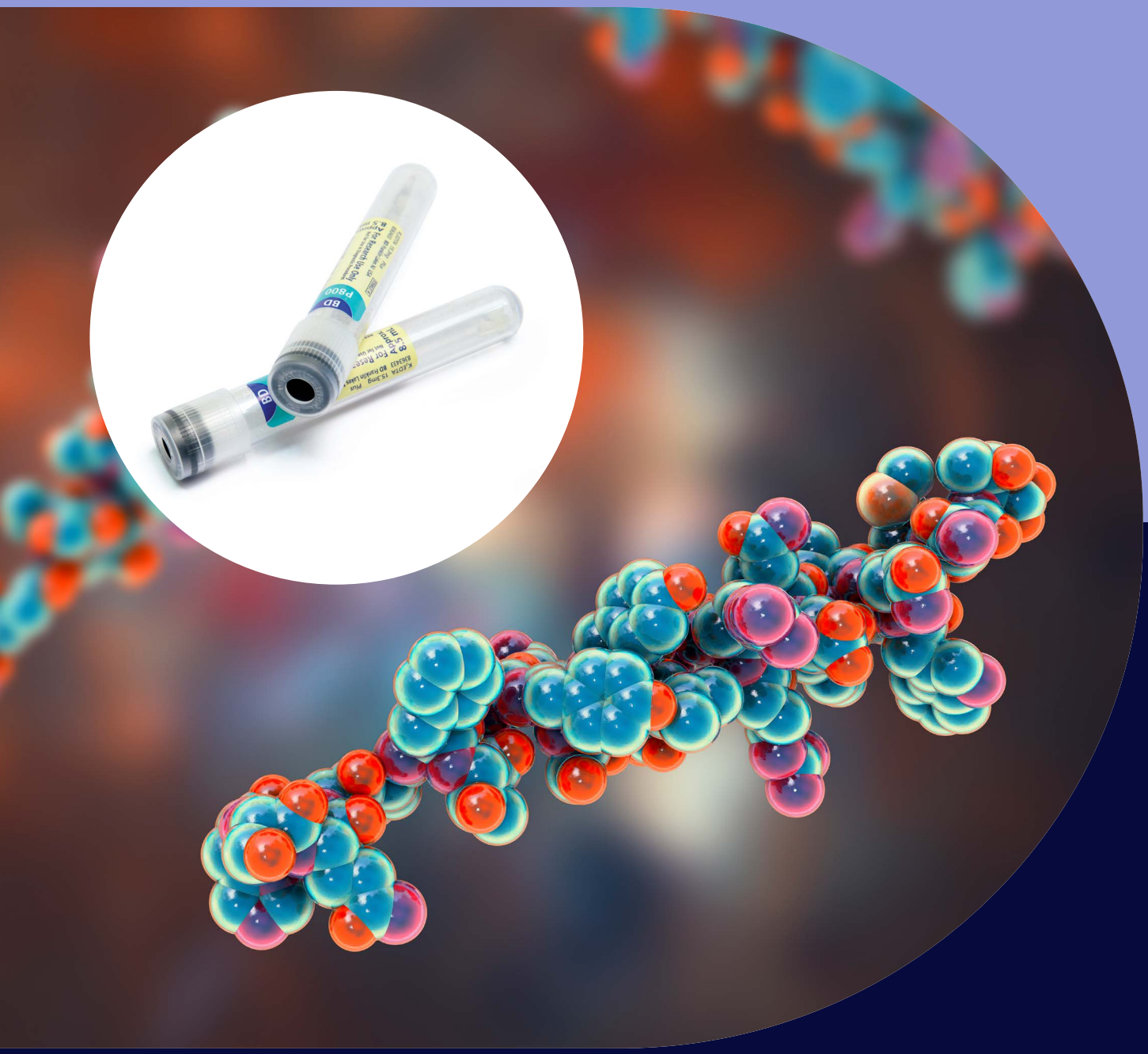


Minimise preanalytical variability and ensure success in your obesity and diabetes clinical trials

Stabilise peptides critical to your diabetes and obesity clinical trials for >96h[1]

BD

Don’t compromise the accuracy of your clinical trials

The popularity of glucagon-like peptide-1 (GLP-1) as a key biomarker in diabetes and obesity disease research has grown thanks to the success of GLP-1 agonist medications.[2]

Despite this surge in relevance and an increasing need for new therapies, preanalytical guidelines for measuring these metabolic peptides is lacking.[3] Much of the success of medication development relies on the ability of clinical trials to yield accurate measurements.[1]

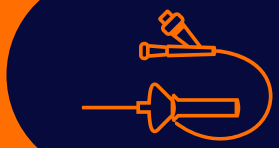
Using inefficient, non-standardised preanalytical processes can result in a variety of issues when analysing volatile metabolic peptides, such as GLP-1.

Inefficient workflow

Stabilising peptides in standard blood collection tubes involves multiple steps and reagents that can increase the chance of operator variability, potentially impacting results

Rapid degradation

Standard blood collection tubes do not support the long-term stability of biomarkers critical to your diabetes and obesity clinical trials[1]



Your choice of blood container impacts the accuracy of measuring GLP-1, glucose-dependent insulinotropic polypeptide (GIP) and glucagon[3]

Improper stabilisation

Transportation conditions can result in significant variations in metabolic peptide quantification[1]

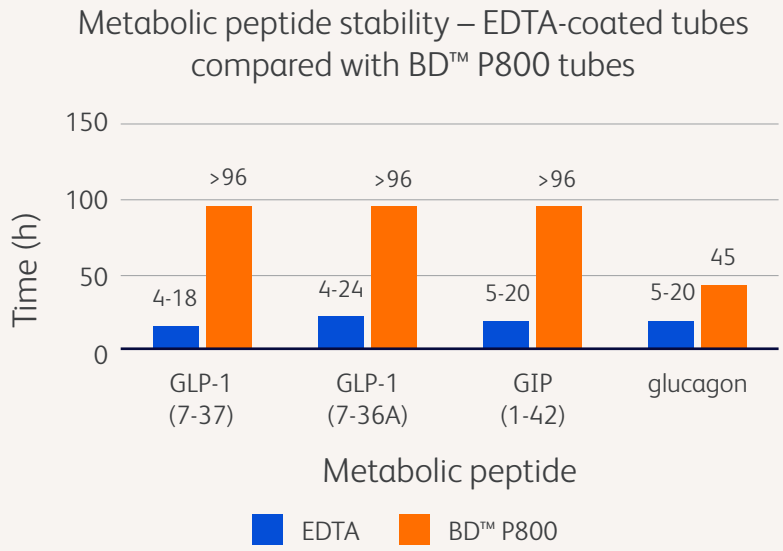
Inaccurate measurement

When measuring metabolic peptides, standard blood collection tubes can introduce large sample variations[1]

The solution – BD™ P800

The BD™ P800 Blood Collection tube contains a blend of proprietary protease inhibitors optimised to stabilise GLP-1, glucagon, oxyntomodulin (OXM) and GIP, enhancing metabolic peptide quantification accuracy.[4]

BD™ P800 efficiently inhibits the proteolysis of metabolic biomarkers crucial to diabetes and obesity clinical trials.[1]



Stabilise peptides critical to your diabetes and obesity clinical trials for >96h[1]

Figure 1 Results from Yi et al 2015 study.[1] The results were obtained using human blood directly drawn into EDTA and BD™ P800 tubes and spiked with relevant peptides. The results were analysed using matrix assisted laser desorption ionisation mass spectrometry (MALDI-TOF MS). BD™ P800 provides a greater length of stability for GLP-1, GIP and glucagon than EDTA-coated tubes alone.[1]

BD™ P800 can help you meet the growing need for novel therapies by:

Standardised materials

Using 75 years of experience in specimen management with our BD Vacutainer® portfolio, BD™ P800 includes solutions optimised for diabetes and obesity clinical trials[4]

Protecting downstream applications

The BD proprietary cocktail of protease inhibitors will not interfere with colorimetric, chemiluminescence and electrochemiluminescence detection methods for insulin[4]

Don't compromise the accuracy of your clinical trials. Use BD™ P800 – a proteomic solution you can trust

Preserving sample integrity

Metabolic peptide half-lives can increase four-fold when compared with EDTA-coated tubes thanks to the rapid and maintained stabilisation provided by BD™ P800[1]

Improved stabilisation

BD™ P800 exhibits increased stability for both active forms of GLP-1, compared with EDTA-coated tubes[1]

Use a single tube to

collect  stabilise  transport  and store your samples. 

Ordering information

BD™ P800 Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
366420	2.0	13 × 75	K_2EDTA/Protease, esterase and DPP-IV inhibitor	None	PET	Paper	BD Hemogard™	
366421	8.5	16 × 100	K_2EDTA/Protease, esterase and DPP-IV inhibitor	None	PET	Paper	BD Hemogard™	

All tubes are supplied in cases of 100

Available to buy online at www.bdbiosciences.com – search P800

Purchase in two different sizes – 2.0 mL and 8.5 mL.

Centrifugation conditions

2.0 mL tubes: 1,100 -1,300 × *g* for 10 minutes

8.5 mL tubes: 1,100 -1,300 × *g* for 20 minutes

Further information

Clinical and technical information is available on request.

The BD™ P800 tube is for Research Use Only (RUO). Not for use in diagnostic procedures.

References
1. Yi J, Warunek D, Craft D. Degradation and stabilization of peptide hormones in human blood specimens. *PLoS One* 2015;10(7):e0134427. **2.** Couzin-Frankel J. Obesity meets its match. *Science* 2023;382(6676):1226–1227. **3.** Rasmussen C, Richter MM, Jensen NJ, et al. Preanalytical impact on the accuracy of measurements of glucagon, GLP-1 and GIP in clinical trials. *Scand J Clin Lab Invest* 2023;83(8):591–598. **4.** BD Vacutainer® P800 Blood Collection System for Plasma Metabolic Biomarker Preservation. Instruction for Use : Becton, Dickinson and Company; 2019.

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