PRODUCT INFORMATION

BSA-Palmitate Reagent Set (5 mM)

Item No. 44698

Overview and Properties

Synonyms: Bovine Serum Albumin-PA, Bovine Serum Albumin-Palmitate, BSA-PA
Supplied as: Item No. 44699: 5 mM Palmitate:0.8 mM BSA (6:1 palmitate:BSA) in 150 mM sodium chloride, pH 7.4
Item No. 44670: 0.8 mM BSA in 150 mM sodium chloride, pH 7.4
Sterility: Sterile

Materials Supplied

Item Number	Item Name	Quantity/Size	Storage Temperature
44699	BSA-Palmitate Complex (5 mM)	1 vial/5 ml	-20°C
44700	BSA Control (Palmitate Complex)	1 vial/5 ml	-20°C

Storage and Stability

Store individual components as directed in the Materials Supplied section and use before the expiration date indicated on the label.

Description

The BSA-Palmitate Reagent Set contains a 5 mM solution of BSA-palmitate complex and a fatty acid-free BSA control. BSA-Palmitate Complex (5 mM) is composed of palmitic acid (Item No. 10006627) and fatty acid-free bovine serum albumin (BSA) at an approximately 6:1 molar ratio of palmitate:BSA. The BSA-palmitate complex and BSA control were prepared at the same time with the same lot of BSA under sterile conditions, then filtered and aliquoted into sterile vials. BSA-palmitate complexes have been used for efficient fatty acid delivery to cells in culture for the purpose of monitoring fatty acid oxidation or similar processes in various cellular metabolic studies.[1-3] Cayman's BSA-Palmitate Reagent Set is suitable for use in short- and long-term cell culture applications (25+ hours).

References

1. Alsabeeh, N., Chausse, B., Kakimoto, P.A., *et al.* Cell culture models of fatty acid overload: Problems and solutions. *Biochim. Biophys. Acta Mol. Cell Biol. Lipids* **1863(2)**, 143-151 (2018).
2. Wang, D., Green, M.F., McDonnell, E., *et al.* Oxygen flux analysis to understand the biological function of sirtuins. *Methods Mol. Biol.* **1077**, 241-258 (2013).
3. Bentebibel, A., Sebastián, D., Herrero, L., *et al.* Novel effect of C75 on carnitine palmitoyltransferase I activity and palmitate oxidation. *Biochemistry* **45(14)**, 4339-4350 (2006).

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