

CERTIFICATE OF ANALYSIS

Product: BSA-SAH. Bovine serum albumin (BSA) was conjugated to S-adenosylhomocysteine (SAH)

Catalog Number: ACT00301

Lot Number: Lot# ACP420829

Quality Release Date: March 28, 2017

Test	Specification	Result
Appearance	Clear liquid	Clear solution
Concentration	1.0 - 6.0 mg/ml	3.73mg/ml
Storage buffer	10mM PBS pH 7.4 (150 mM NaCl)	10mM PBS pH 7.4 (150 mM NaCl)
Stability below -25°C	Long term	>3 years

To evaluate whether SAH has been conjugated to BSA, ELISA strips or plate were coated with BSA-SAH at 0.5µg/ml. A series of dilutions of SAH standards were added to the strips. HRP-conjugated anti-SAH monoclonal antibody was added at 1:4000 for PBS and 1:3000 for Plasma matrix standards and incubated for 60 minutes. After washing, TMB substrate was added to develop the color generated from HRP bond to the plate due to BSA-SAH, and sulfuric acid was then added to stop color development. The OD450 values were read as follows.

SAH (nM)	OD450 (standard in PBS)		OD450 (standard in Plasma)	
0	3.2876	3.2927	1.7066	1.6897
31.25	3.2200	3.2749	1.5699	1.5470
62.5	3.1385	3.1838	1.3962	1.4194
125	2.9811	2.9237	1.1436	1.1607
250	2.7065	2.7169	0.9551	0.9293
500	2.0776	1.8809	0.5387	0.5439
1000	1.1977	1.1629	0.4082	0.3620
400	2.3073	2.2777	0.7779	0.7290

The results indicated that SAH has been conjugated to carrier BSA since the OD450 values showed obvious dose-dependent effect and the linearity is satisfactory using ELISA analytical software. This lot of BSA-SAH has also been tested in immunochromatographic test strips and yielded satisfactory results. Best dilution of BSA-SAH should be tested and determined individually based on each particular situation and with different technology platforms.



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Quality Control Team