



Melamine [BSA] (DAG4476)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Melamine, BSA-conjugate
Antigen Description	The melamine and BSA (bovine serum albumin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. One or more of the three amine groups in the melamine are directly linked to carboxyl group(s) in the BSA without any linker by EDC conjugation method. Given the molecular weights of melamine and BSA are 126.12 Da and 66.4 kDa, respectively, the molar ratio of melamine:BSA in the conjugation solution is 526:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of melamine that is actually conjugated to each BSA molecule is not determined.
Species	N/A
Conjugate	BSA
Applications	Used as capture antigen for the detection of anti-melamine antibodies and as immunogen for the generation of melamine antibodies. The melamine, BSA-conjugate has been shown to be recognized by melamine-specific antibodies by ELISA and lateral flow based immunoassay, respectively.
Format	Liquid
Concentration	2.0 mg/ml BSA
Size	1 mg
Buffer	Supplied in 20 mM PBS, pH 7.4
Preservative	None
Storage	Keep below -20°C for up to 1 year. Avoid repeated freeze-and-thaw. For short term storage (< 3 weeks) keep at 4°C.

BACKGROUND

Introduction Melamine is an organic base and a trimer of cyanamide, with a 1,3,5-triazine skeleton. Like cyanamide, it contains 66% nitrogen by mass and, if mixed with resins, has fire retardant properties due to its release of nitrogen gas when burned or charred, and has several other industrial uses. Melamine is also a metabolite of cyromazine, a pesticide. It is formed in the body of mammals who have ingested cyromazine. It has been reported that cyromazine can also be converted to melamine in plants. Melamine combines with cyanuric acid and related compounds to form melamine cyanurate and related crystal structures, which have been implicated as contaminants or biomarkers in Chinese protein adulterations.

Keywords Melamine