



# Vitamin B12 [HSA-Biotin] (DAG545S)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	Vitamin B12, covalently linked to biotinylated human serum albumin
<b>Species</b>	N/A
<b>Purity</b>	chromatography, dialysis
<b>Conjugate</b>	HSA-Biotin
<b>Applications</b>	e.g. allergy test, immunoassays etc.
<b>Molecular Weight</b>	app. 65 kDa
<b>Format</b>	Liquid
<b>Concentration</b>	1 mg/mL, conjugation ratio is app. 1:10 - 1:40.
<b>Size</b>	1 mg
<b>Buffer</b>	PBS
<b>Preservative</b>	0.05% sodium azide
<b>Storage</b>	Store at 4°C.

## BACKGROUND

<b>Introduction</b>	Vitamin B12 is a member of the vitamin B complex. It contains cobalt, and so is also known as cobalamin. It is exclusively synthesised by bacteria and is found primarily in meat, eggs and dairy products. There has been considerable research into proposed plant sources of vitamin B12. Fermented soya products, seaweeds, and algae such as spirulina have all been suggested as containing significant B12. However, the present consensus is that any B12 present in plant foods is likely to be unavailable to humans and so these foods should not be
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relied upon as safe sources. Vitamin B12 is necessary for the synthesis of red blood cells, the maintenance of the nervous system, and growth and development in children. Deficiency can cause anaemia. Vitamin B12 neuropathy, involving the degeneration of nerve fibres and irreversible neurological damage, can also occur.

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**Keywords**

drug-HSA-Biotin conjugate, drug-conjugate, Vitamin B12 HSA-Biotin conjugate

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