

Anti-6-MAM R12703 SPTN-5

Product overview

Catalog number	140041
Specificity	Antibody recognizes 6-monoacetylmorphine (6-MAM)
Description	Recombinant mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	Unspecified, storage at 2–8 °C
Subclass	IgG ₁
Analyte description	Heroin (diacetylmorphine) is metabolized to 6-MAM and morphine. 6-MAM is a unique metabolite of heroin and its presence is definitive evidence of recent heroin use. Morphine is also a metabolite of several legal drugs, including codeine, and therefore is not a conclusive indication of heroin use.

Parameters tested on each lot

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/-10 %) (A280 nm, 1 mg/ml, 1 cm = 1.6)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.4–6.6
Purity	≥ 95 %

Kinetic parameters

Association rate constant	1.1 x 10 ⁶ 1/Ms
Dissociation rate constant	Does not dissociate under conditions used.
Affinity constant	Not applicable
Determination method	BLI (Octet RED96e)
Determination antigen	6-Monoacetylmorphine (6-MAM)-BSA Antigen, Medix Biochemica (Cat 170031)

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Cross-reactivities	Morphine \leq 0.01 %												
Epitope	Not Determined												
Pair recommendations	6-Monoacetylmorphine (6-MAM)-BSA Antigen, Medix Biochemica (Cat 170031) Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.												
Platforms tested	FIA LF												
Antigens tested	Please see pair recommendations above												
Product stability	<table><thead><tr><th>TEMPERATURE, TIME</th><th>RESULT</th></tr></thead><tbody><tr><td>-70 °C, 21 days</td><td>OK</td></tr><tr><td>-20 °C, 21 days</td><td>OK</td></tr><tr><td>+4 °C, 21 days</td><td>OK</td></tr><tr><td>+35 °C, 21 days</td><td>OK</td></tr><tr><td>+45 °C, 7 days</td><td>OK</td></tr></tbody></table> Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.	TEMPERATURE, TIME	RESULT	-70 °C, 21 days	OK	-20 °C, 21 days	OK	+4 °C, 21 days	OK	+35 °C, 21 days	OK	+45 °C, 7 days	OK
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References	-												



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