## Medix Biochemica

### Anti-6-MAM 12705 SPTN-5

Product overview		
Catalog number	100983	
Specificity	Antibody recognizes 6-Monoacetylmorphine (6-MAM)	
Description	Monoclonal 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	lgG1	
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 %)	
Immunoreactivity	80–120 % compared to the reference sample in an FIA test	
IEF Profile	6.5–7.1	
Purity	≥ 95 %	
Kinetic parameters		
Association rate constant	6.7 x 10 <sup>5</sup> 1/Ms	
Dissociation rate constant	3.1 x 10 <sup>-5</sup> 1/s	
Affinity constant	$K_A = 2.2 \text{ x } 10^{10} \text{ 1/M}; K_D = 9.6 \text{ x } 10^{-11} \text{ M} (= 0.096 \text{ nM})$	
Determination method	BLI (Octet RED96e)	
Determination antigen	6-Monoacetylmorphine (6-MAM)-BSA Antigen, Medix Biochemica (Cat 170031)	



**Oy Medix Biochemica Ab** Klovinpellontie 3, Fl-02180 Espoo, Finland medix@medixbiochemica.com www.medixbiochemica.com VAT reg. no. FI14631532

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Cross-reactivities	Morphine ≤ 0.03 %	
Epitope	Not determined	
Pair recommendations	<ul><li>6-Monoacetylmorphine (6-MAM)-BSA Antigen, Medix Biochemica (Cat 170031)</li><li>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.</li></ul>	
Platforms tested	FIA LF	
Antigens tested	Please, see pair recommendation above.	
Product stability	temperatures affect the antigen bind	life given on the first page is based on
Miscellaneous	-	
References	-	



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