## Anti-LSD R12301 SPTN-5

### Product overview

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| **Catalog number** | 140027 |
| **Specificity** | Antibody recognizes lysergic acid diethylamide (LSD) |
| **Description** | Recombinant mouse IgG$_1$ antibody, cultured *in vitro* 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** | Lysergic acid diethylamide (LSD) is a semi-synthetic hallucinogen. |

### Parameters tested on each lot

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| **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** | 6.3–6.8 |
| **Purity** | ≥ 95 % |

### Kinetic parameters

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| **Association rate constant** | 1.6 x 10$^6$ 1/Ms |
| **Dissociation rate constant** | 1.2 x 10$^{-4}$ 1/s |
| **Affinity constant** | $K_A$ = 1.4 x 10$^{10}$ 1/M; $K_D$ = 9.5 x 10$^{-11}$ M (= 0.10 nM) |
| **Determination method** | BLI (Octet RED96e) |
| **Determination antigen** | Lysergic acid diethylamide (LSD)-BSA, EastCoast Bio LA783 |

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| **Cross-reactivities** | Recognizes 2-Oxo-3-hydroxy-LSD |
| **Epitope** | N/D |
| **Pair recommendations** | Lysergic acid diethylamide (LSD)-BSA Antigen LA783 |
| | 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 |
| **Antigens tested** | Please see pair recommendations above. |

**Product stability**

| 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 |

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.

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| **Miscellaneous** | - |
| **References** | - |