

Table 3-4. Percentage of Laboratories Reporting Positive Results on Immunoassay Screening when Challenged with Various Drugs

Immunoassay Technique	MDMA 2500 ng/mL ^a	Lorazepam 750 ng/mL ^b	Oxycodone 7500 ng/mL ^c	Hydromorphone 1000 ng/mL ^d
CEDIA	n/a	100	29	100
CMI (Triage)	98	100	10	99
EIA (DRI)	35	99	n/a	n/a
EIA (EMIT)	13	76	54	88
FIA	48	100	0	13
FPIA	57	n/a	2	97
MIA (KIMS)	2	95	7	19

Review of the College of American Pathologists Urine Drug Screen (UDS) Surveys for 6 years (2003-2008) for a total of 18 surveys.

Abbreviations: CEDIA, cloned enzyme donor immunoassay; CMI, colloidal metal immunoassay; DRI, Diagnostic Reagents Inc. (Sunnyvale, CA); EIA, enzyme immunoassay; EMIT, enzyme multiplied immunoassay technique; FIA, fluorescence immunoassay; FPIA, fluorescence polarization immunoassay; KIMS, kinetic interaction of microparticles in solution; MDMA, methylenedioxymethamphetamine; MIA, microparticle immunoassay; n/a, information not available.

^a Immunoassay category: amphetamine; cutoff: 1000 ng/mL; no. of surveys included: 2.

^b Immunoassay category: benzodiazepine; cutoff: 300 ng/mL; no. of surveys included: 1.

^c Immunoassay category: opiate; cutoff: 300 ng/mL; no. of surveys included: 1.

^d Immunoassay category: opiate; cutoff: 300 ng/mL; no. of surveys included: 1.

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