

Drug Testing Reagents for Commercial Assay Development

ANTIBODIES AND ANTIGENS DESIGNED FOR ASSAYS
DETECTING THERAPEUTIC DRUGS AND DRUGS OF ABUSE



Immunoassays for drug-testing are generally divided into forensic (DOA assays) and clinical products (TDM serum assays). Due to the differences in applications there are distinct design, technical capabilities and regulatory approval processes for each type. Meridian offers a range of drug testing reagents designed to produce accurate and precise results for both qualitative and quantitative assays.

DRUG TESTING REAGENTS

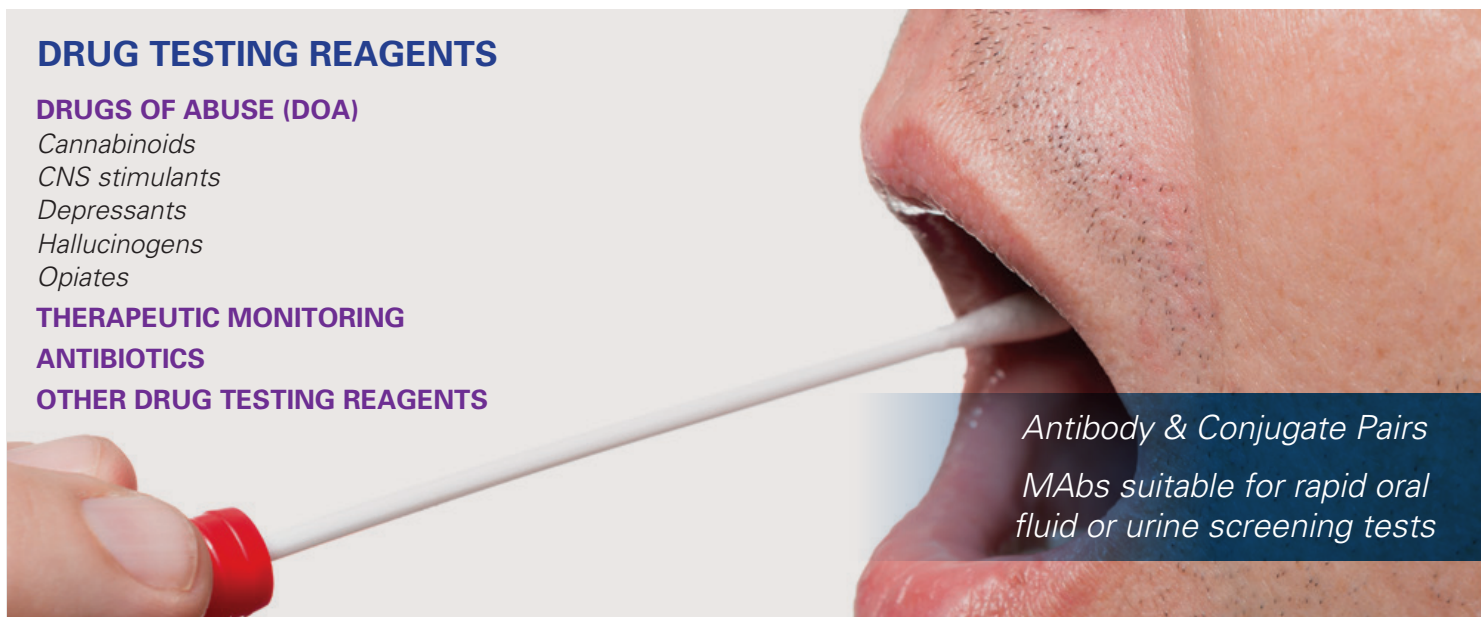
DRUGS OF ABUSE (DOA)

Cannabinoids
CNS stimulants
Depressants
Hallucinogens
Opiates

THERAPEUTIC MONITORING

ANTIBIOTICS

OTHER DRUG TESTING REAGENTS



Antibody & Conjugate Pairs
MAbs suitable for rapid oral
fluid or urine screening tests

ABOUT DRUG TESTING

Drug abuse testing traditionally refers to the practice of testing for drugs including depressants, hallucinogens, CNS stimulants, opiates, cannabinoids, and phencyclidine (PCP). These tests have expanded in recent years to include (1) workplace, military and school testing for drugs of abuse (DOA), (2) screening in sports for the use of performance enhancing compounds, and (3) the emergency-room in order to diagnose possible overdose situations. In all of these areas, the testing method is qualitative only and is typically dependent on a urine or saliva sample as the testing specimen. Specifically, these types of assays are designed to determine if an individual is or is not taking DOA or non-prescribed medications.

Another use of drug testing is to monitor drug pharmacokinetics in order to help physicians provide the best treatment to their patients. With most medications, a certain dosage level of the drug (the therapeutic range) is required to obtain the desired effect. The goal of therapeutic drug monitoring (TDM) is to optimize the dose and clinical outcome for each patient. Some key differences in the TDM testing method compared to DOA are (1) the diagnostic specimen is typically serum instead of urine, saliva or hair, (2) the results are quantitative and need to be accurate and precise over a large concentration range, and (3) the tests are designed for use in hospital laboratories as opposed to rapid point-of-care.

ANTIBODY & DRUG CONJUGATE PAIRS

- All pairs are suitable for use in ELISA or Lateral Flow assays
- Various conjugates available in different hapten: protein ratios

ANTIGEN CAPTURE	MAb DETECTION	ANTIGEN CAPTURE	MAb DETECTION
AMPHETAMINE		METHADONE	
Y01301B (BSA)	G01284M	Y01280B (BGG)	G01280M <i>Saliva & Urine</i>
Y01287B (BSA)	G01282M or G01284M	Y01298B (BSA)	G01301M or G01302M
BARBITAL		METHAMPHETAMINE	
Y01272B (BSA)	G01272M <i>Saliva & Urine</i>	Y01271B (BSA)	G01271M <i>Saliva & Urine</i>
Y01285B (BSA)	G01283M or G01285M	Y01294B (BSA)	G01295M or G01296M or G01297M
BENZODIAZEPINE		MORPHINE	
Y01284B (BGG)	G01281M <i>Urine</i>	Y01276B (BSA)	G01276M <i>Saliva & Urine</i>
Y01283B (BGG)	G01281M <i>Saliva</i>	Y01295B (BSA 40:1)	G01298M or G01299M or G01300M
Y01282B (BGG)	G01281M <i>Saliva</i>	Y01296B (BSA 40:1)	G01298M or G01299M or G01300M
Y01281B (BGG)	G01281M <i>Urine</i>	Y01297B (BSA 70:1)	G01298M or G01299M or G01300M
Y01290B (BSA)	G01290M	OPIUM	
BENZOYLECGONINE (MAIN COCAINE METABOLITE)		Y01275B (BSA)	G01275M <i>Saliva & Urine</i>
Y01293B (BSA)	G01294M or G01292M	OXYCODONE	
Y01292B (BSA)	G01293M or G01292M	Y01299B (BSA)	G01303M or G01304M <i>Saliva & Urine</i>
BUPRENORPHINE		PROPOXYPHENE	
Y01291B (BSA)	G01291M	Y01278B (BSA)	G01278M <i>Saliva & Urine</i>
COCAINE		THC	
Y01277B (BSA)	G01277M <i>Saliva & Urine</i>	Y01273B (BGG)	G01273M <i>Saliva & Urine</i>
EDDP		Y01274B (BGG)	G01274M <i>Saliva & Urine</i>
Y01306B (BSA)	G01306M <i>Saliva & Urine</i>	Y01268B (BSA)	G01286M
Y01305B (BGG)	G01306M	MDMA (ECSTACY)	
K2 (SYNTHETIC MARIJUANA)		G01267B (BSA)	G01265M
Y01302B (BSA)	G01305M <i>Saliva & Urine</i>		
KETAMINE			
Y01270B (BSA)	G01270M <i>Saliva & Urine</i>		



ILLICIT DRUGS

CANNABINOIDS

THC

MAD12-066	(MAb)
G01286M	(MAb)
G01238M	(MAb)
G82920M	(MAb)
G82922M	(MAb)
G01273M	(MAb)
G01274M	(MAb)
Y01273B	(BGG conj)
Y01274B	(BGG conj)
Y01268B	(BSA conj)

PINACA (SYNTHETIC THC)

Y01309B	(BSA)
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K2

G01305M	(MAb)
Y01302B	(BSA conj)

UR-144 (SYNTHETIC THC)

Y01308B	(BSA conj)
G01310M	(MAb)
G01311M	(MAb)
G01313M	(MAb)
G01314M	(MAb)

OPIATES

METHADONE

G01280M	(MAb)
G01301M	(MAb)
G01302M	(MAb)
Y01280B	(BGG conj)
Y01298B	(BSA conj)

EDDP

G01306M	(MAb)
Y01306B	(BSA conj)
Y01305B	(BGG conj)

OPIUM

G01275M	(MAb)
Y01275B	(BSA conj)

PROPOXYPHENE

G01278M	(MAb)
Y01278B	(BSA conj)

MORPHINE

G31263M	(MAb)
G01276M	(MAb)
G01298M	(MAb)

G01299M	(MAb)
G01300M	(MAb)
Y01276B	(BSA conj)
Y01295B	(BSA conj)
Y01296B	(BSA conj)
Y01297B	(BSA conj)

OXYCODONE

F82910R	(PAb)
G01303M	(MAb)
G01304M	(MAb)
Y01299B	(BSA conj)

HALLUCINOGENS

KETAMINE

G01255M	(MAb)
G01269M	(MAb)
G01270M	(MAb) <i>HS</i>
Y01269B	(BSA conj)
Y01241B	(BSA conj)
Y01270B	(BSA conj) <i>HS</i>

MDMA

G01265M	(MAb)
G01266M	(MAb)
G01269M	(MAb)
G01267B	(BSA conj)

DEPRESSANTS

BARBITAL

G01283M	(MAb)
G01285M	(MAb)
G01272M	(MAb)
Y01272B	(BSA conj)
Y01285B	(BSA conj)

PHENOBARBITAL

Y82611A	(BSA conj)
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BENZODIAZEPINE

G01290M	(MAb)
G01281M	(MAb)
Y01290B	(BSA conj)
Y01281B	(BGG conj)
Y01282B	(BGG conj)
Y01283B	(BGG conj)
Y01284B	(BGG conj)

CNS STIMULANTS

AMPHETAMINE

G82988M	(MAb)
G01282M	(MAb)
G01284M	(MAb)
G01289M	(MAb)
Y01287B	(BSA conj)
Y01301B	(BSA conj)

BUPRENORPHINE

G01291M	(MAb)
Y01291B	(BSA conj)
Y01235B	(BSA conj)

BENZOYLECGONINE/ COCAINE

G45020M	(MAb)	<i>B</i>
G45132M	(MAb)	<i>B+C</i>
G82911M	(MAb)	<i>B+C</i>
G01277M	(MAb)	<i>C</i>
G01292M	(MAb)	<i>B+C</i>
G01293M	(MAb)	<i>B+C</i>
G01294M	(MAb)	<i>B</i>
Y01292B	(BSA conj)	<i>B</i>
Y01293B	(BSA conj)	<i>B</i>
Y01277B	(BSA conj)	<i>C</i>

COTININE

G01257M	(MAb)
Y01279B	(BSA conj)

COTININE-3

F82319R	(PAb)
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COTININE-4

F82419R	(PAb)
F82451R	(PAb)

CAFFEINE

G45110M	(MAb)
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METHAMPHETAMINE

G01271M	(MAb)
G35913M	(MAb)
G82913M	(MAb)
G01295M	(MAb)
G01296M	(MAb)
G01297M	(MAb)
Y01294B	(BSA conj)
Y01271B	(BSA conj)

HS - High Sensitivity | B - Benzoylcegonine | C - Cocaine

THERAPEUTIC MONITORING

CARBAMAZEPINE

G31234M (MAb)

CYCLOSPORIN A

G86313M (MAb)

DIGOXIN

MAD53-310C (MAb)

MAD53-122 (MAb)

G45135M (MAb)

G45330M (MAb)

POLYETHYLENE GLYCOL (PEG)

G01237M (MAb)

G01236M (MAb)

G01245B (MAb)

TACROLIMUS (FK-506)

G01239M (MAb)

THEOPHYLLINE

MAD63-003 (MAb)

TRICYCLIC ANTIDEPRESSANTS

G01288M (MAb)

Y01288B (BSA conj)

ANTIBIOTICS

CHLORAMPHENICOL

G01247M (MAb)

G01248M (MAb)

G01249M (MAb)

G01250M (MAb)

ENROFLOXACIN/CIPROFLOXACIN

G55417M (MAb)

ERYTHROMYCIN

G13012M (MAb BSA conj)

GENTAMICIN

G55102M (MAb)

NEOMYCIN

G13021M (MAb BSA conj)

PENICILLIN

G13011M (MAb BSA conj)

STREPTOMYCIN

G13013M (MAb BSA conj)

TOBRAMYCIN

MAD64-052 (MAb)

OTHER

DINITROPHENOL

G01241M (MAb)

G01235M (MAb)

G01234M (MAb)

