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MISSION: One mission of USAFTDTL is to conduct Department of Health and Human Services regulated urine drug testing for all Department of Defense civilian personnel who are in testing designated positions.

DRUG TESTING MENU AND CUTOFF CONCENTRATIONS

Initial Drug Test Cutoff Concentrations

Measurand	Cutoff
Marijuana metabolites	50 ng/mL
Cocaine metabolites	150 ng/mL
Opiate metabolites (codeine/morphine ¹)	2000 ng/mL
6-Acetylmorphine	10 ng/mL
Phencyclidine	25 ng/mL
Amphetamines ² :	
Amphetamine/Methamphetamine ³	500 ng/mL
MDMA ⁴	500 ng/mL

¹Morphine is the target analyte for codeine/morphine testing.

²Either a single initial test kit or multiple initial test kits may be used provided the single test kit detects each target analyte independently at the specified cutoff.

³Methamphetamine is the target analyte for amphetamine/methamphetamine testing.

⁴Methylenedioxymethamphetamine (MDMA)

Confirmatory Drug Test Cutoff Concentrations

Measurand	Cutoff
Marijuana metabolite (i. e., THCA)	15 ng/mL
Cocaine metabolite (i. e., benzoylecgonine)	100 ng/mL
Opiates:	
Morphine	2000 ng/mL
Codeine	2000 ng/mL
6-AM	10 ng/mL
Phencyclidine	25 ng/mL
Amphetamines:	

Measurand	Cutoff
Amphetamine	250 ng/mL
Methamphetamine ¹	250 ng/mL
MDMA	250 ng/mL
MDA	250 ng/mL
MDEA	250 ng/mL

¹To be reported positive for methamphetamine, the specimen must also have an amphetamine concentration equal to or greater than 100 ng/mL. If the MRO requests an isomer analysis, the results are reported as % d-methamphetamine isomer.

Criteria for SVT Results Reporting

- **Adulterated**

pH < 3.0 or ≥ 11.0

- **Substituted**

Creatinine < 2 mg/dL and SpGr ≤ 1.0010 or ≥ 1.0200

- **Dilute**

Creatinine ≥ 2 mg/dL but < 20 mg/dL and SpGr > 1.0010 and < 1.0030

- **Invalid**

- pH ≥ 3.0 and < 4.5
- pH ≥ 9.0 and < 11.0
- Nitrite ≥ 200 µg/mL
- Creatinine < 2.0 mg/dL (on both the initial and confirmatory test) and SpGr > 1.0010 and < 1.0200 (on initial and/or confirmatory SpGr test)
- Creatinine ≥ 2.0 mg/dL (on either or both initial and confirmatory tests) and the SpGr ≤ 1.0010 (on both the initial and confirmatory tests)

POSSIBLE TESTING RESULTS FOR A PRIMARY (BOTTLE A) SPECIMEN

Result	Description
Negative	Drug tests are negative and specimen validity test results indicate a valid specimen. May report using only electronic report.
Negative and Dilute	Drug tests are negative, creatinine ≥ 2.0 & < 20 mg/dL and SpGr > 1.0010 & < 1.0030. May report using only electronic report.
Rejected for Testing	Meets rejection criteria (See Table U-2, pg 5)
Invalid Result	Meets invalid result criteria (See Table U-2, pg 5)
Positive, Specific Drug	One or more positive drug analytes
Positive, Specific Drug, and Dilute	One or more positive drug analytes, creatinine ≥ 2.0 & < 20 mg/dL and SpGr > 1.0010 & < 1.0030
Positive, Specific Drug, and Adulterated	One or more positive drug analytes, and a specific

	adulterant is verified using a confirmatory test or pH < 3.0 or \geq 11.0
Positive, Specific Drug, and Substituted	One or more positive drug analytes, creatinine < 2.0 and SpGr \leq 1.0010 or \geq 1.0200
Positive, Specific Drug, and Invalid	One or more positive drug analytes and meets invalid result criteria (See Table U-2, pg 5)
Adulterated	A specific adulterant is verified using a confirmatory test or pH < 3.0 or \geq 11.0
Adulterated and Invalid	A specific adulterant is verified using a confirmatory test or pH < 3.0 or \geq 11.0, and meets invalid result criteria (See Table U-2, pg 5)
Adulterated and Substituted	A specific adulterant is verified using a confirmatory test or pH < 3.0 or \geq 11.0, and creatinine < 2.0 mg/dL and SpGr \leq 1.0010 or \geq 1.0200
Substituted	Creatinine < 2.0 mg/dL and SpGr \leq 1.0010 or \geq 1.0200
Substituted and Invalid	Creatinine < 2.0 mg/dL and SpGr \leq 1.0010 or \geq 1.0200, and meets invalid result criteria (See Table U-2, pg 5)

ABBREVIATIONS IN THE ELECTRONIC DATA STREAM

AD	Adulterated
6AM	6-Acetylmorphine
AMPS	Amphetamines
AMP	Amphetamine
CREA	Creatinine
COC	Cocaine metabolite
COD	Codeine
CR	**THIS IS A CORRECTED REPORT**
DI	Dilute
DSAMP	Designer amphetamines (MDMA, MDA, MDEA)
II	Immunoassay interference
IG	GCMS interference
IP	Abnormal physical characteristics
dMET	d-methamphetamine (units are %)
GOX	General oxidant (units are μ g Nitrite equivalents/mL)
IN	Invalid
MDMA	3,4-methylenedioxymethamphetamine
MDA	3,4-methylenedioxyamphetamine
MDEA	3,4-methylenedioxyethylamphetamine
MET	methamphetamine

MOR	Morphine
ND	Negative and dilute
OPI	Opiates (codeine, morphine)
PCP	Phencyclidine
PD	Positive and dilute
PO	Positive
SU	Substituted
THC	THC metabolite

ADDITIONAL INFORMATION FOR THE MRO

<http://www.workplace.samhsa.gov>

Table U-2. Required Comments for Specimen Reports

Test Result	Required Comment ¹	Note
Negative and Dilute	Creatinine = (numerical value) mg/dL & SpGr = (numerical value)	IITF forwards to lab if creatinine \leq 5.0 mg/dL
Positive	(Specify drug analyte) = confirmatory test quantitative result	
Positive and Dilute	(Specify drug analyte) = confirmatory test quantitative result; Creatinine = (numerical value) mg/dL & SpGr = (numerical value)	
Adulterated	pH = (conf. test value)	pH < 3.0 or \geq 11.0
	Nitrite = (conf. test value) mcg/mL	\geq 500 mcg/mL nitrite
	Surfactant Present; dodecylbenzene sulfonate = (conf. test value) mcg/mL	\geq 100 mcg/mL dodecylbenzene sulfonate
	Chromium (VI) = (conf. test value) mcg/mL	adulterant \geq LOQ
	(Specify Halogen) = (conf. test value)	
	Glutaraldehyde = (conf. test value) mcg/mL	
	Pyridine = (conf. test value) mcg/mL	
(Specify Adulterant) Present = (conf. test value)		
Substituted	Creatinine = (conf. test value) mg/dL & SpGr = (conf. test value)	
Invalid Result	Creatinine < 2 mg/dL & SpGr Acceptable	SpGr > 1.0010 & < 1.0200
	SpGr \leq 1.0010 & Creatinine \geq 2 mg/dL	
	Abnormal pH = (pH value supporting the invalid result)	pH \geq 3.0 & < 4.5 or pH \geq 9.0 & < 11.0
	Nitrite = (conf. test value) mcg/mL	Nitrite \geq 200 & < 500 mcg/mL on confirmatory test
	Oxidant Activity = (\geq 200 mcg/mL nitrite-equivalents, \geq 50 mcg/mL Cr VI-equivalents, or \geq halogen or other oxidant LOQ) ²	Oxidant = nitrite, chromium VI, halogen, etc.
	Possible (characterize as Aldehyde or Surfactant) Activity ²	
	Immunoassay Interference ²	
	(Specify confirmatory drug test method) interference ²	
Abnormal Physical Characteristic - (Specify) ²		
Bottle A and Bottle B - Different Physical Appearance ²		
Rejected for Testing	Fatal Flaw: Specimen ID number mismatch/missing	ID mismatch/missing on either Bottle A or B
	Fatal Flaw: No collector printed name & No signature	
	Fatal Flaw: Bottle A label/seal broken or shows evidence of tampering	If redesignation is not possible
	Fatal Flaw: Bottle A insufficient specimen volume	
	Fatal Flaw: Bottle A seal condition not marked on CCF by IITF	
	Uncorrected Flaw: Wrong CCF used ³	Wait 5 business days before reporting flaw if not corrected
	Uncorrected Flaw: Collector signature not recovered	
Uncorrected Flaw: A & B redesignation not documented by IITF		
¹ Remarks on CCF (Step 5a) & on elec. report for primary specimens; Remarks on Split Specimen Report & on elec. report for split specimens		
² Lab shall contact the MRO to discuss the Invalid Result in accordance with the HHS Guidelines (73 Fed. Reg. 71858) section 11.19.g.		
³ Error identified before testing or after testing with regulated procedures: obtain collector MFR and report; reject after 5 days if no MFR. See NLCP Manual (IITF Question E8g and Laboratory Question E9g) for further guidance.		