

TECHNICAL NOTE

Re: DETECTABUSE CONTROLS, THC STABILITY

Detectabuse controls are stable for the length of time under the storage conditions stated in the package insert. In spite of this fact, under certain conditions, there may be observed a gradual decline in THC levels, over time, from continuous use of a single bottle of control material. This drop in THC values may occur from any THC sample (i.e. calibrators, controls, and samples). The apparent loss of THC most often occurs from handling and not from product instability.

It is well known that THC-COOH binds to surfaces, especially certain plastics^{1,2}. In order to minimize this adsorption loss we recommend the following when handling any sample (including Detectabuse controls) which may contain THC:

1. Preferably, use glass pipettes or pour controls into sample cup. As an alternate, pipettors with disposable plastic tips may be used. Soft plastic transfer pipettes should be avoided.
2. Do not rinse the pipette back and forth into the sample.
3. Sample volume to surface area ratio should be as high as possible (i.e. when transferring, sample containers should be filled as much as possible with sample). Avoid rough surface plastic containers.
4. When pipetting, immerse the pipette tip as little as possible into the sample solution.
5. Do not return any unused material back into the original sample

These same guidelines should also be followed when aliquoting a control (or sample) for future use.

References:

1. Blanc JA, Manneh VA, et al. Adsorption losses from urine-based cannabinoid calibrators during routine use. Clin Chem 1993; 39:1705-1712
2. Roth KDW, Siegel NA, et al. Investigation of the effects of solution composition and container material type on the loss of 11-nor-delta 9-THC-9-carboxylic acid. J. Anal Tox 1996; 20:291-300

Rev: June 2003

DETECTABUSE

STAT-SKREEN™ (Low Opiate)

STAT-SKREEN-H™ (High Opiate)

LIQUID

TOXICOLOGY

CONTROL

URINE

Controls prepared from human based urine available as a negative and at various constituent target levels to monitor the performance of on-site drug detection devices.

Target levels available: Negative, +50% Cutoff, 3X Cutoff

For in vitro diagnostic use only - PLEASE READ ENTIRE INSERT CAREFULLY BEFORE USING THESE CONTROLS.

DESCRIPTION

Each bottle contains stabilized human based urine. Positive control urines have been spiked with authentic reference drug standards and/or appropriate metabolites. Negative control urines are certified negative by EMIT[®], ONLINE[™] and GC/MS for the constituents listed in this insert.

PRECAUTIONS

For in vitro diagnostic use only - Please read the entire package insert before using the Detectabuse control urines. Please use the same safety precautions you would use for processing any "unknown" urine sample containing potentially infectious biological material. Protect product from exposure to direct sunlight.

Although target values are provided with the Detectabuse liquid controls, each laboratory should run these controls as unknowns in order to establish "in-house" assay values for them. Biochemical Diagnostics will (upon request), supply assay values derived from our contract assay laboratories and customer base on a particular lot of control material.

Contains sodium azide: To prevent formation of explosive metal azides dispose of waste by flushing with copious amounts of water or according to local governing regulations.

STORAGE & STABILITY

Unopened:

- The controls are stable for two years or until the expiration date, whichever comes first, when stored at -20°C protected from light.
- The controls are stable for three months or until the expiration date, whichever comes first, when stored at $2-8^{\circ}\text{C}$.

After Opening:

- The controls are stable for six months or until the expiration date, whichever comes first, when stored at -20°C . (Controls can be aliquoted and frozen)
- The controls are stable for one month or until the expiration date, whichever comes first, when stored at $2-8^{\circ}\text{C}$.

Thaw controls as needed; allow to come to room temperature followed by gentle swirling before using.

EMIT[®] is a trademark of SYVA Co. (Dade Behring), Palo Alto, CA
ONLINE[™] is a trademark of Roche Diagnostics Corp., Indianapolis, IN

APPLICATIONS

The Detectabuse Stat-Skreen or Stat-Skreen-H[™] controls are designed to monitor the performance of on-site drugs of abuse detection methods.

The Detectabuse Stat-Skreen or Stat-Skreen-H[™] controls are compatible with all quantitative and qualitative drug detection procedures which are sufficiently sensitive to detect the control constituents. They should be treated as any "unknown" specimen while following the specific protocol of the assay being used.

**DETECTABUSE
STAT-SKREEN or STAT-SKREEN-H™ CONTROLS**

CONSTITUENTS	TARGET VALUES (ng/mL)		
	Negative	50%	3X
SAMHSA Mandated			
Delta-9-THC-COOH	0	75	150
Benzoylcegonine	0	450	900
PCP	0	37.5	75
Morphine (Stat-Skreen)	0	450	900
Morphine (Stat-Skreen-H)	0	3000	6000
d-Methamphetamine	0	1500	3000
d-Amphetamine	0	1500	3000
Non-Mandated			
Secobarbital	0	450	900
Oxazepam	0	450	900
Methadone	0	450	900
Methaqualone	0	450	900
Propoxyphene	0	450	900
Nortriptyline	0	1500	3000

	CATALOG #	DESCRIPTION	
19700000	Stat-Skreen™	Liquid Control Urine	Negative
19470058	Stat-Skreen™	Liquid Control Urine	Cutoff +50%
19470061	Stat-Skreen™	Liquid Control Urine	3X Cutoff
19470076	Stat-Skreen-H™	Liquid Control Urine	Cutoff +50%
19470081	Stat-Skreen-H™	Liquid Control Urine	3X Cutoff
19223011	Stat-Skreen™	Liquid Control Urine	Negative
19470051	Stat-Skreen™	Liquid Control Urine	Cutoff +50%
19470055	Stat-Skreen™	Liquid Control Urine	3X Cutoff
19470070	Stat-Skreen-H™	Liquid Control Urine	Cutoff +50%
19470075	Stat-Skreen-H™	Liquid Control Urine	3X Cutoff



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