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dreams do
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Introducing the GramPRO 3™

The latest innovation in
Gram staining

We asked you, our laboratory partners, what you wanted in the best automated, triple-slide Gram stainer and then we built our new GramPRO 3™ based on your feedback. It is truly built for you. With the GramPRO 3™'s unique patented electric eye technology, there is no variation in each Gram stain, resulting in no under or over decolorization. The GramPRO 3™ will stain three slides at once; individually and in batch mode. And maybe the best part is that there is minimal cleaning or maintenance required! Even better, all processes occur automatically inside the unit, even methanol fixation.

Consistent
Accurate **Precise**



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CUTOFF CONCENTRATIONS FOR DRUG TESTS

This table was put together by MLO staff referring to federal regulations at 49 CFR part 40, Section 40.85 and information from Thermo Fisher. Section 40.85 states that:

1. As a laboratory, you must use the cutoff concentrations displayed in the following table for initial and confirmatory drug tests. All cutoff concentrations are expressed in nanograms per milliliter (ng/mL).
2. On an initial drug test, you must report a result below the cutoff concentration as negative. If the result is at or above the cutoff concentration, you must conduct a confirmation test.
3. On a confirmation drug test, you must report a result below the cutoff concentration as negative and a result at or above the cutoff concentration as confirmed positive.
4. You must report quantitative values for morphine or codeine at 15,000 ng/mL or above.¹

The table follows:

Initial test analyte	Common street name(s)	Initial test cutoff ^A	Confirmatory test analyte	Confirmatory test cutoff concentration
Marijuana metabolites (THCA) ^B	Marijuana (Pot)	50 ng/mL ^C	THCA	15 ng/mL.
Cocaine metabolite (Benzoyllecgonine)	Cocaine (Coke)	150 ng/mL ^C	Benzoyllecgonine	100 ng/mL.
Codeine/Morphine	Opiates	2000 ng/mL	Codeine Morphine	2000 ng/mL. 2000 ng/mL.
Hydrocodone/Hydromorphone	Vicodin/Dilaudid	300 ng/mL	Hydrocodone Hydromorphone	100 ng/mL. 100 ng/mL.
Oxycodone/Oxymorphone	OxyContin/Opana	100 ng/mL	Oxycodone Oxymorphone	100 ng/mL. 100 ng/mL.
6-Acetylmorphine	Heroin	10 ng/mL	6-Acetylmorphine	10 ng/mL.
Phencyclidine	PCP (Angel Dust)	25 ng/mL	Phencyclidine	25 ng/mL.
Amphetamine/Methamphetamine	Meth	500 ng/mL	Amphetamine Methamphetamine	250 ng/mL. 250 ng/mL.
MDMA/ ^E MDA	Ecstasy	500 ng/mL	MDMA MDA	250 ng/mL. 250 ng/mL.

REFERENCES

1. eCFR :: 49 CFR 40.85 -- What are the cutoff concentrations for drug tests? Ecf. gov. Accessed June 25, 2024. <https://www.ecfr.gov/current/title-49/subtitle-A/part-40/subpart-F/section-40.85>.
 2. SAMHSA guidelines - US. Accessed June 25, 2024. <https://www.thermofisher.com/us/en/home/clinical/diagnostic-testing/clinical-chemistry-drug-toxicology-testing/drugs-abuse-testing/drug-testing-overview/samhsa.html>.
- A. For grouped analytes (i.e., two or more analytes that are in the same drug class and have the same initial test cutoff):
Immunoassay: The test must be calibrated with one analyte from the group identified as the target analyte. The cross-reactivity of the immunoassay to the other analyte(s) within the group must be 80 percent or greater; if not, separate immunoassays must be used for the analytes within the group.
Alternate technology: Either one analyte or all analytes from the group must be used for calibration, depending on the technology. At least one analyte within the group must have a concentration equal to or greater than the initial test cutoff or, alternatively, the sum of the analytes present (i.e., equal to or greater than the laboratory's validated limit of quantification) must be equal to or greater than the initial test cutoff.
- B. An immunoassay must be calibrated with the target analyte, Δ-9-tetrahydrocannabinol-9-carboxylic acid (THCA).
- C. *Alternate technology (THCA and Benzoyllecgonine):* When using an alternate technology initial test for the specific target analytes of THCA and Benzoyllecgonine, the laboratory must use the same cutoff for the initial and confirmatory tests (i.e., 15 ng/mL for THCA and 100ng/mL for Benzoyllecgonine).
- D. Methylenedioxyamphetamine (MDMA).
- E. Methylenedioxyamphetamine (MDA).