ROADSIDE ORAL FLUID TESTING

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Roadside Oral Fluid Testing

- Analyzer technology- uses lateral flow immunoassay technology
- Easy-to-use 3-step process
- Sample collection in less than 60 seconds on average
- Most devices test for common drugs of abuse (e.g., cannabis (THC), cocaine, amphetamines, methamphetamines, opioids, benzodiazepines).
- Rapid screening, with results in 5 minutes
- Built-in quality checks and procedures
- Periodic QC testing
- Storage of over 10,000 tests
- Print capability





Collection tools

TEST CARTRIDGE

 Fully integrated test cartridge containing dried reagents and assay buffer

ORAL FLUID COLLECTION DEVICE

- Designed to be robust for active sample collection
- Sample volume adequacy indicator eliminates the need for timed collections









1 — COLLECT ORAL FLUID SAMPLE

- Turn on the analyser.
- Unwrap a new collection device and offer it to the donor.

Ensure they hold the collection device by the plastic stem.

- Ask the donor to actively swab the collection device around the mouth until the sample volume adequacy indicator has started to turn blue.
- On average, this takes less than 60 seconds.









2 - INSERT TEST CARTRIDGE INTO ANALYSER

 Check that the silica gel pack is present, intact and yellow. If the silica gel is missing, open or green, discard the test cartridge and start again with a new test cartridge.



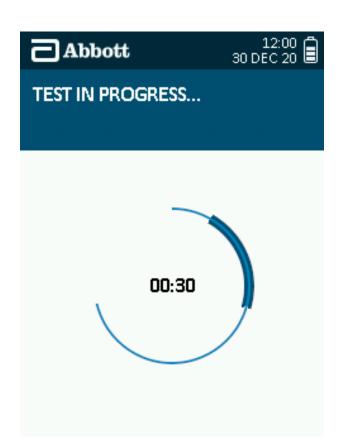




3 — Test takes approximately 5 minutes

 The analyser will display the test result on-screen as positive, negative or invalid.









Countries that have implemented oral fluid testing

- Australia: THC, Methamphetamine
- Canada: THC, Cocaine, Methamphetamine
- Argentina, Austria
- Belgium, Brazil
- Chile, Columbia
- France, Germany
- Ireland, Italy
- Netherlands, New Zealand
- Poland, Portugal
- South Africa, South Korea

- Spain, Sweden
- Turkey, UAE
- United Kingdom (arrests up 600% since implementation in 2015)
- Vietnam
- United States

States that have implemented or are preparing to implement roadside oral fluid testing

- Alabama
- Arizona
- California
- Connecticut
- Indiana
- Kansas
- Michigan
- Minnesota
- Missouri
- Montana

- New York
- Nevada
- North Dakota
- South Dakota
- Utah

AND THE LIST IS GROWING!!



Screening vs. Confirmation testing

Oral fluid screening	Confirmation test
Investigative tool used to support probable cause	Evidential test
Sample collected at roadside	Sample collected post-arrest (unless evidential OF)
Analysis conducted at roadside	Analysis conducted in forensic laboratory
Limited test panel (6+ drugs)	Significantly larger test panel (lab dependent)
Qualitative result (+/-)	Quantitative result (ng level)
Real-time information	Analysis can take months
Not used in court proceedings	Key piece of evidence in court proceedings



Glossary of Terms

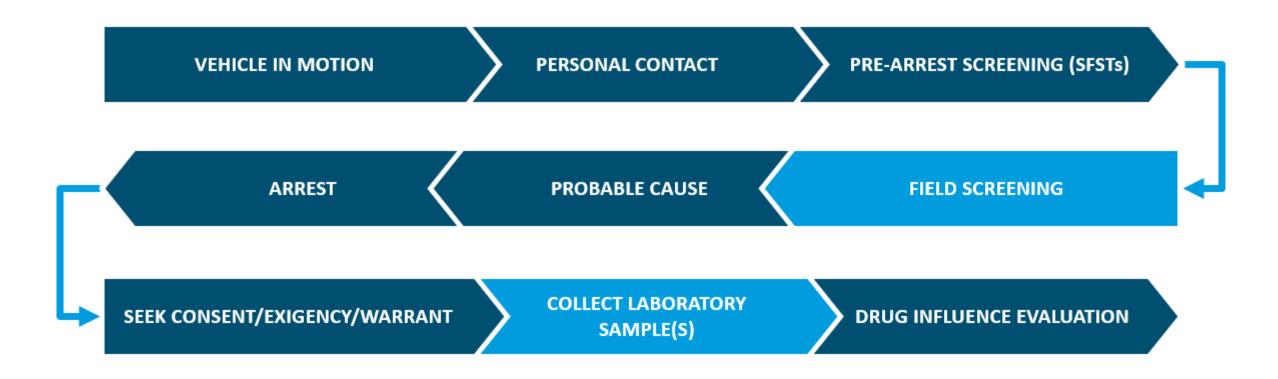
CUTOFF

- This is the decision
 point that
 differentiates a test
 result as being either
 positive or negative.
- The cutoff for a test is given as a defined drug concentration.
- Cutoff levels vary by manufacturer

Drug Group	Target Compound	Cutoff (ng/mL)
Amphetamine	(S)-Amphetamine	50
Benzodiazepine	Temazepam	20
Cannabis	Delta-9-THC	25
Cocaine	Benzoylecgonine	30
Methamphetamine	(S)-Methamphetamine	50
Opiates	Morphine	40

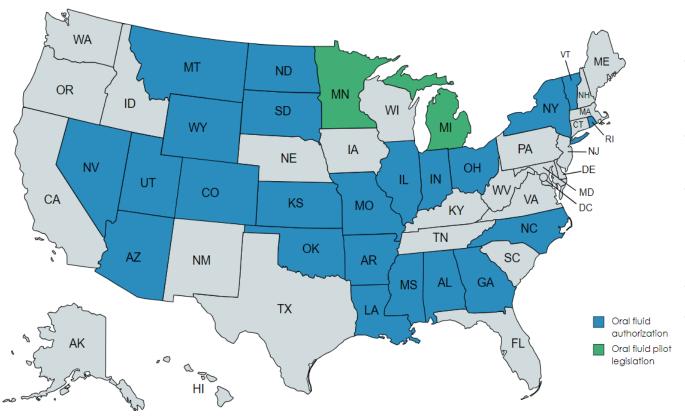


Impaired driving investigation: Oral





Current policy landscape: Oral fluid authorization



Proprietary and confidential — do not distribute

- 23 states have some form of oral fluid statutory authorization.
- 2 states (MI, MN) enacted pilot legislation.
- Approaches to policy vary

 implied consent,
 preliminary testing,
 pilot/standalone law.
- Passing a law is phase 1.
- Shift away from pilots and studies toward phased implementation approach.

11



Advantages of roadside Oral Fluid drug testing

- ❖ A reflection of free drug circulating in the blood
- **Easy, rapid, non-invasive, observed collection**
- Sample taken proximate to traffic stop
- ❖ No medical personnel required for collection
- Parent drug detection shows recency of use
- ❖ Aid the investigative process help establish probable cause
- Enhances public safety
- Supports strategic use of resources
- Creates general deterrence



Arizona Highway Patrol Accuracy Results

	Α	В	С	D	
	Sotoxa Oral Fluid Mobile Test System				
2	Date ▼ ↑	Sotoxa Results	Crime Lab Results	0 = N/A 1 = Right 2 = Wrong	
3	11/14/21	AMP,THC,MAMP	MDA, MDMA, Alp, THC, THC-C, THC-H, Fent, Norfent	1	
1	12/13/21	THC	THC, THC-C, Diphenhydramine	1	
5	12/19/21	None	None	1	
6	12/21/21	THC	THC, THC-C, THC-H	1	
7	12/21/21	THC	THC, THC-C	1	
8	12/22/21	AMP,THC	AMP, THC, THC-C, THC-H,	1	
9	12/22/21	THC, COC	Benzoylecgonine, THC, THC-C, THC-H	1	
0	12/24/21	None	None	1	
1	12/26/21	THC	THC, THC-C	1	
2	12/28/21	THC	THC, THC-C	1	
3	12/29/21	AMP,THC	THC, THC-C	1	
4	12/31/21	THC	THC, THC-C	1	
5	12/31/21	THC	THC, THC-C	1	
6	1/6/22	AMP,THC	Navajo Nation Case - No blood/urine available	0	
7	1/9/22	N/A	Navajo Nation Case - No blood/urine available	0	
8	1/13/22	THC	THC-C	1	
9	1/18/22	AMP,MAMP	MAMP, AMP	1	
0	1/25/22	AMP,MAMP	Navajo Nation Case - No blood/urine available	0	
1	1/26/22	AMP, MAMP	Amp, Meth, THC, THC-C	1	
2	1/28/22	THC	THC, THC-C, THC-H	1	
3	1/30/22	THC	Navajo Nation Case - No blood/urine available	0	
4	2/7/22	AMP,THC,MAMP	MAMP, AMP, THC, THC-H, THC-C	1	
5	2/7/22	THC	THC, THC-C, THC-H	1	
6	2/12/22	THC	THC, THC-C	1	
7	2/13/22	THC	Alp, THC, THC-C, THC-H	1	
8	2/14/22	THC	THC, THC-H, THC-C	1	
9	2/15/22	AMP,MAMP	MAMP, AMP, THC, THC-C	1	
0	2/26/22	THC	THC, THC-C, FENT	1	
1	2/27/22	AMP, BZO, MAMP, OPI	Amp, Meth, Alpraz, Alpha-Hydroxyalprazolam, Dihydrocodeine, Hydrocodone, Hydromorphone, Fent, Norfent	1	
2	2/27/22	AMP, MAMP	Amp, Meth, Fent, Norfent	1	
3	3/2/22	AMP, MAMP	MAMP, AMP	1	
4	3/4/22	AMP	MAMP, AMP	1	
5	3/5/22	AMP, THC	THC, THC-C, THC-H	1	



Thank you for your time and attention!!!

