Workforce Drug Testing for Marijuana in 2021

Insights from Quest Diagnostics Drug Testing Index™ data (QuestDiagnostics.com/DTI)

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Agenda

• Drug use trends
  ▪ Overall
  ▪ Marijuana
  ▪ Cocaine

• Impact of marijuana legislation
  ▪ State marijuana law status – marijuana positivity
  ▪ Employer testing for marijuana

• Specimen validity testing (SVT)

• Analysis by testing reason

• Q & A
Quest Diagnostics Drug Testing Index™

National analysis of workforce drug testing data from SAMHSA-certified labs

Routine specimens submitted for workforce drugs of abuse testing
- Hair, oral fluid, and urine specimens
- Rehabilitation and criminal justice excluded
- Point-of-collection confirmations excluded (excludes high positivity)

Laboratory positive data (prior to MRO review)
- Does not indicate whether there is an “alternative medical explanation”
- Includes employer/Medical Review Officer (MRO) blinds

Two major groups
- Federally mandated, safety-sensitive workforce
- General US workforce
Drug Use Trends
Overall positivity

GW higher than FMSS, oral fluid and hair higher than urine

Source: Quest Diagnostics Drug Testing Index
Marijuana positivity

Tops the list of the most commonly detected illicit substances

Source: Quest Diagnostics Drug Testing Index
Cocaine positivity

Positivity across every specimen type

Source: Quest Diagnostics Drug Testing Index
Impact of marijuana legislation
Data Set

General US workforce urine data used for marijuana state status analysis

Recreational states
legal recreational marijuana use
*Note: all but 1 recreational use states are also medical states*

Medical (only) states
legal medical marijuana use

Non-recreational/medical states
no legal marijuana use

Source: Quest Diagnostics Drug Testing Index Full year 2021
Marijuana positivity

Federally mandated, safety-sensitive urine by current state marijuana law status

Source: Quest Diagnostics Drug Testing Index
Marijuana positivity in recreational use states

Federally mandated, safety-sensitive workforce urine

Source: Quest Diagnostics Drug Testing Index
Drug testing including marijuana in general US workforce urine

By current state marijuana law status

Source: Quest Diagnostics Drug Testing Index
Drug testing including marijuana in general US workforce urine

General US workforce by state

Source: Quest Diagnostics Drug Testing Index
SVT results
Non-negative rates by specimen type

Recent increases in drug test specimens reported as invalid

Source: Quest Diagnostics Drug Testing Index

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Dilute rates by type

Urine dilutes remain steady

Source: Quest Diagnostics Drug Testing Index
Positivity by testing reason
Positivity by testing reason

Federally mandated, safety-sensitive workforce urine

Source: Quest Diagnostics Drug Testing Index
Marijuana urine drug test positivity by testing reason

Federally mandated, safety-sensitive workforce urine

Source: Quest Diagnostics Drug Testing Index
Cocaine urine drug test positivity by testing reason

Federally mandated, safety-sensitive workforce urine

Source: Quest Diagnostics Drug Testing Index
Semi-synthetic Opiates urine drug test positivity by testing reason

Federally mandated, safety-sensitive workforce urine

Source: Quest Diagnostics Drug Testing Index
Oxycodones urine drug test positivity by testing reason

Federally mandated, safety-sensitive workforce urine

Source: Quest Diagnostics Drug Testing Index
Summary

Drug use in the American workforce

- Difference in post-accident positivity as compared to pre-employment increases for a variety of drugs in both workforces
  - Post-accident vs. pre-employment marijuana positivity increased more than 25x for the federally mandated and more than 2x in the general US workforces from 2012 to 2021
  - Cocaine positivity, post-accident as compared to pre-employment, for the federally mandated safety-sensitive workforce has more than doubled since 2012
- Overall positivity in the combined US workforce is 4.6% in 2021, up 31.4% from the all-time low of 3.5% 10 years ago (2010 – 2012)
  - Marijuana workforce drug test positivity continues increase to keep overall drug positivity rates at historically high levels
  - Tests including marijuana had largest drop ever, especially in recreational use states
- Marijuana and cocaine positivity increases in 2021 for the federally mandated safety-sensitive workforce
Interactive map shows combined US workforce positivity by 3-digit zip code

Search by drug and year

- 6-AM (heroin metabolite)
- Amphetamines
- Cocaine
- Marijuana
- Opiates
- Opiates (Hydrocodone/Hydromorphone)
- Oxycodones (Oxycodone/Oxymorphone)
- Phencyclidine (PCP)

Compare your state to the national average

Source: Quest Diagnostics Drug Testing Index®