

Lab test batches

Compliance LTBs are designed to ensure all required analytes are tested and verified before a package is granted a “TestPassed” status, allowing the package to be transferred to a dispensary for sale.

The following are compliance LTBs and the corresponding product categories eligible to request each batch:

- Raw Plant Material
 - Buds, Joint, Pre-roll, Shake/Trim
 - Though Joint and Pre-roll categories are eligible to select this LTB, the Buds or Shake/Trim used to create the pre-roll is required to be tested prior to creation.
 - Single-strain pre-rolls made from flower that has already undergone and passed compliance testing are not required to go through processing jobs or final form testing.
- Non-Solvent Concentrate/Extract (Final Form – For Sale)
 - Final form (i.e., product packaged for sale) concentrates/extracts produced without the use of solvents.
 - 42.39.601(44)"Non-solvent-based marijuana concentrate and extract" means a marijuana concentrate and extract manufactured from usable marijuana using water, ice, dry ice, a press, sieve, or filter and that does not use any solvent listed in the Appendix or solvent defined in (61). The term includes kief, hash, and rosin.
- Non-Solvent Concentrate/Extract (For Processing)
 - Concentrates/extracts that are intended to be used as an ingredient in another marijuana product and are produced without solvents.
 - 42.39.601(44)"Non-solvent-based marijuana concentrate and extract" means a marijuana concentrate and extract manufactured from usable marijuana using water, ice, dry ice, a press, sieve, or filter and that does not use any solvent listed in the Appendix or solvent defined in (61). The term includes kief, hash, and rosin.
- Solvent Based Concentrate/Extract (Final Form – i.e., product packaged for sale)
 - Final form (i.e., packaged for sale) concentrates/extracts that are produced using solvents.
 - 42.39.601(60)"Solvent-based marijuana concentrate and extract" means a marijuana concentrate and extract manufactured from usable marijuana using solvents, or subcritical or supercritical carbon dioxide and that does not use water in any state phase. The term includes tinctures, shatter, budder, wax, resin, and hash oils.
 - 42.39.601(59) "Solvent" means a chemical compound described by its function in chemistry to dissolve, suspend, or extract analytes of interest from materials. Solvents are divided into the following classes: (a) Hydrocarbon solvents, including aliphatic, aromatic, and paraffinic solvents;

- (b) Oxygenated solvents including alcohols, ketones, esters, ethers, glycol ethers, and glycol ether esters; and
 - (c) Halogenated solvents that include halogens such as chlorine, bromine, or iodine.
- Solvent Based Concentrate/Extract (For Processing)
 - Concentrates/extracts produced using solvents that are intended for use as an ingredient in another marijuana product.
 - 42.39.601(60)"Solvent-based marijuana concentrate and extract" means a marijuana concentrate and extract manufactured from usable marijuana using solvents, or subcritical or supercritical carbon dioxide, and that does not use water in any state phase. The term includes tinctures, shatter, budder, wax, resin, and hash oils.
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 - (c) Halogenated solvents that include halogens such as chlorine, bromine, or iodine.
- Infused Products
 - Infused (edible), Infused (non-edible).
- Expected Potency Change – Flower or Pre-Rolls.
 - Pre-rolls
 - Previously tested and compliant packages of flower combined to create "house/mixed strain" pre-rolls.
- Expected Potency Change – Concentrate/Extract or Infused Pre-Rolls
 - Concentrate
 - Infused pre-rolls, moonrocks, or other combination of flower and concentrate produced with previously tested and compliant flower or shake/trim and previously tested and compliant concentrate/extract
 - When creating these types of products, a processing job is required.

R&D (Research and Development) LTBs are designed to investigate levels of specific analytes in packages with a lab test status of **"NotSubmitted"**. When used appropriately, they will not change the lab test status of associated packages.

R&D LTBs and corresponding product categories available for use. These are not a substitute for compliance LTBs.

- R&D Testing – Microbials – Aspergillus
 - This is available for all product categories.
 - Test only for speciated aspergillus contamination.
- R&D Testing – Microbials – Salmonella
 - This option is available for all product categories.

- Test only for Salmonella contamination.
- R&D Testing – Microbials – STEC
 - This is available for all product categories.
 - Test only for Shiga Toxin-producing E. coli contamination
- R&D Testing – Pesticides (Raw Plant Material)
 - This is available for Buds, Joints, Pre-roll, and Shake/Trim product categories
 - Test only for pesticide levels in plant material
- R&D Testing – Pesticides (Concentrate/Extract)
 - This is available for concentrate and kief product categories.
 - Test only for pesticide levels in concentrates/extracts.
- R&D Testing – Mycotoxins
 - This is available for Buds, Joints, Pre-roll, Shake/trim, Concentrate, and kief product categories.
 - Test only for mycotoxins.
- R&D Testing – Potency (Raw Plant Material & Concentrate/Extract)
 - This is available for Buds, Joint, Pre-roll, Shake/Trim, concentrate, and kief product categories
 - Test only for cannabinoid levels in raw plant material and concentrate/extract.
- R&D Testing – Potency (Infused products)
 - This is available for infused (edible) and Infused (non-edible) product categories
 - Test only for cannabinoid levels in infused products.
- R&D Testing – Residual Solvents
 - This is available for concentrate and kief product categories.
 - Test only for residual solvents in “solvent based marijuana concentrate/extracts.”
- R&D Testing – Terpenes
 - This is available for all product category types.
 - Test only for the terpene profile.
- R&D Testing – Metals (Raw Plant Material)
 - This is available for Buds, Joint, Pre-roll, Shake/Trim categories
 - Test only for heavy metals in raw plant material.
 - Currently Labs are not equipped to test for this
- R&D Testing – Metals (Concentrates/Extracts)
 - This option is available for concentrate and kief product categories.
 - Test only for heavy metals in concentrates/extract.
 - Currently Labs are not equipped to test for this.

Best Practices

This section outlines common scenarios to help licensees navigate Metrc more effectively and avoid errors that require state approval to unlock packages stuck in incorrect testing statuses, ensuring products reach the correct test status promptly and accurately.

- Lab Test Batches (LTB) should be carefully verified prior to selection to ensure they correspond with the selection made through the Laboratory Information Management System (LIMS) i.e., Confident Cannabis.
 - For example: If a licensee selects “Non-Solvent Concentrate/Extract (Final Form – For Sale)” LTB in Metrc but selects “Solvent Based Concentrate/Extract (Final Form – For Sale)” in LIMS/Confident Cannabis, the laboratory will conduct testing based on the LIMS/Confident Cannabis selection. When the results are uploaded to METRC, the discrepancy in expected analytes or data fields will prevent the system from completing the test process and as a result, the package will be stuck in “TestingInProgress” status. This occurs because the results contain additional fields not required in the LTB in METRC. Resolving this requires state intervention and approval to manually update the test status.
 - This issue can also occur in reverse. For example, if a licensee selects, “Solvent Based Concentrate/Extract (Final Form – For Sale)” LTB within Metrc, but selects “Non-Solvent Concentrate/Extract (Final Form – For Sale)” in the LIMS/Confident Cannabis, the laboratory will conduct testing according to the LIMS/Confident Cannabis selection. As a result, the required analytes and fields expected by the LTB in Metrc are not fully met. This causes the package to become stuck in a “TestingInProgress” lab status, as Metrc cannot reconcile the missing or mismatched data without state intervention to manually resolve the discrepancy.
- Currently R&D tests should only be conducted on packages with a “NotSubmitted” lab test status.
 - Pulling an R&D sample from any package that already has an existing lab test status will place that package into a “TestingInProgress” status, potentially requiring Metrc support and state intervention to resolve.
 - If an R&D test is pulled from a “TestPassed” product and there is a failure, CCD may hold the source package due to potentially dangerous levels of contaminants.
- R&D tests Should not be initiated in Metrc at the same time as compliance testing.
 - Pulling additional R&D samples concurrently with a compliance test will cause the package to enter a “TestingInProgress” lab test status, which may require Metrc support and state approval to resolve
 - For example, if a licensee is submitting flower for compliance testing in LIMS/Confident Cannabis and also wishes to obtain a terpene profile, there is no need to also initiate a separate R&D test for terpenes. If the terpenes analysis is selected in the LIMS/Confident Cannabis, the results will appear

on the Certificate of Analysis (COA) along with the compliance test results because results from terpene are not required by regulation.

- Packages submitted for compliance testing should have only one compliance sample pulled. If more than one sample is pulled from the same package, the package will remain in a “TestingInProgress” lab test status, requiring Metrc support and state intervention to resolve.
 - In cases where a package exceeds the volume/weight limits outlined in rule and multiple samples are necessary, the same issue will occur- the package will remain stuck in “TestingInProgress” lab test status.
 - To avoid this, it is best practice to package potentially larger packages into separate test lots, from the harvest or processing job, prior to sampling. This allows one sample to be pulled from each distinct package rather than multiple samples from a single package.
 - Splitting packages before lab sampling can expedite the progression to a “TestPassed” status in Metrc- provided the samples pass compliance testing. If not, the package will require state approval before it can receive a “TestPassed” lab test status.
- Lab samples pulled in error should be discontinued.
 - If the sample is adjusted and finished, Metrc will still recognize that multiple lab samples were pulled from one source package.
- If a licensee orders the wrong LTB the sample should be discontinued.
 - LTBs will show on the transport manifest. Double check LTBs before the lab employees depart the facility with the sample.
- Product that fails testing needs to be remediated with detailed notes in Metrc.
 - 42.39.613(11) Failed harvest lots, process lots, or test batches may be remediated as long as the remediation method does not impart any substance or effect to the usable marijuana, marijuana concentrates and extracts, or marijuana-infused products that may have a toxic or deleterious effect on the health of the customer.
 - 42.39.613(12) Remediation methods used on specific lots or batches of marijuana or marijuana-infused products that have failed initial quality assurance testing must be disclosed to the state laboratory prior to remediation
- Product that fails testing is required to be retested by the laboratory that performed the initial testing.
 - 42.39.610(12) Failed or remediated marijuana items shall be re-tested at the same testing laboratory from which the original failed test results came unless explicit written permission from the department is granted prior to re-testing.