ARIZONA DEPARTMENT OF HEALTH SERVICES

**Medical Marijuana Testing Advisory Council**
**Summary of Approved Motions as of 11/19/19**

## Potency

- All products must be tested for THC-A, Δ9-THC, CBD-A, CBD, and any label claims specific to cannabinoids.

- Total THC and CBD shall be reported as follows:
    - Total THC = (Δ9-THC + (THC-A x 87.7%))
    - Total CBD = (CBD + (CBD-A x 87.7%))

- Potency of all products must test +/- 20% of label claim or be repackaged to meet actual concentration.

- Potency reporting should include, at minimum:
    - for anything over 10% cannabinoid - one decimal place (i.e., to 12.3%)
    - for anything under 10% but above 0.1% - two decimal places (0.01%)
    - For anything under 0.01% - three decimal places (i.e., to 0.012%)

- For edibles, report potency in mg with two significant figures

- Potency reporting should note that results are “below the level of quantitation” when applicable

- Potency testing can be conducted by AHP or in-house methods that are validated by AOAC Appendix K or other federal or international standards that meet the criteria

## Microbial Contamination

- All products must be tested for *E. coli* prior to sale.
    - Products testing ≤100 CFU/g pass
    - Products testing >100 CFU/g must be remediated or reprocessed as applicable and retested prior to sale

- All final products must be tested for *Salmonella*. Samples with detectable *Salmonella* will fail and must be destroyed - no remediation possible.

- All inhaled products must either be:
    - Tested for *Aspergillus flavus, fumigatus, niger, terreus* using molecular methods (PCR, qPCR, DNA microarrays, sequencing). Products ≤1 CFU pass and no further testing is required. If the result is >1 CFU, the product must be tested for mycotoxins using HPLC, Elisa, or an in-house developed method that is validated by AOAC

Appendix K or other federal or international standards. Products testing ≥20µg/kg (ppm) mycotoxins fail and cannot be remediated.

OR

- Tested for mycotoxins using HPLC, Elisa, or an in-house developed method that is validated by AOAC Appendix K or other federal or international standards. Products testing ≥20µg/kg (ppm) mycotoxins fail and cannot be remediated.

- Microbial testing should be conducted using the Bacteriological Analytical Manual (FDA 2013a) and validated by AOAC Appendix J or other federal or international standards that meet the criteria

## Residual Solvents

- All products must be tested for residual solvents referenced below. Products at or below the values listed in the table may be sold.

| Solvent | Limit (ppm) | Solvent | Limit (ppm) |
|---|---|---|---|
| Acetone | ≤1000 | Hexane | ≤290 |
| Acetonitrile | ≤410 | Isopropyl Acetate | ≤1000 |
| Benzene | ≤2 | Pentane | ≤5000 |
| Butane | ≤5000 | Propane | ≤5000 |
| Ethanol | ≤5000 | Toulene | ≤890 |
| Ethyl Acetate | ≤5000 | Xylenes | ≤1 |
| Heptanes | ≤5000 | | |

- Residual solvent testing should be conducted using any EPA, AOAC, or in-house developed method that is validated by AOAC Appendix K or other federal or international standards that meet the EPA criteria