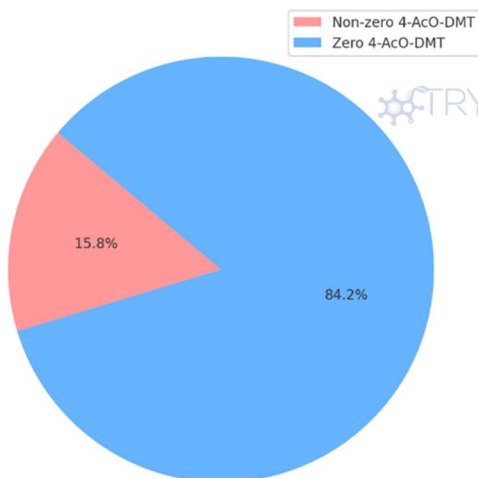


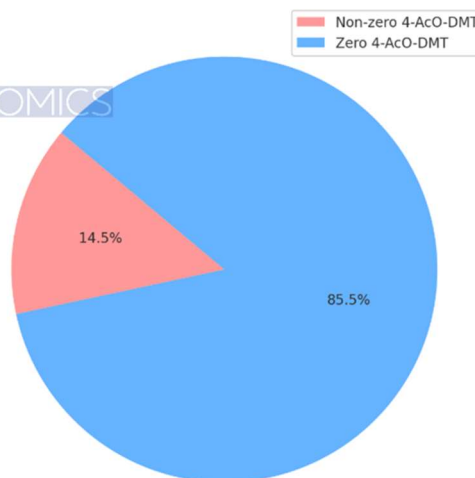
Fig 1: "Magic Mushroom" Edibles Samples Containing 4-AcO-DMT (Psiloacetin)

LA Times Data: 4-AcO-DMT Presence



Total Samples: 19

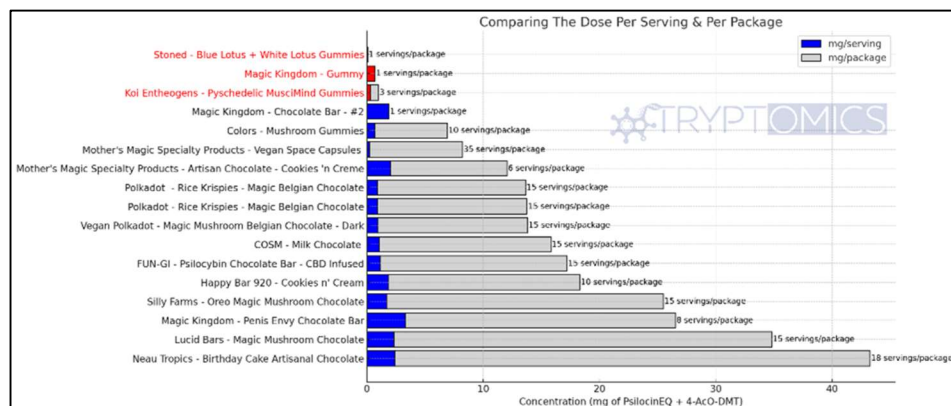
Public Edible Data: 4-AcO-DMT Presence



Total Samples: 76

These pie charts illustrate the percentage of samples from the LA Times (Left) and Public Edible Data (Right) dataset that contain non-zero levels of 4-AcO-DMT. The chart is divided into two segments: Samples containing 4-AcO-DMT (in red) and samples with no detectable levels of 4-AcO-DMT (in blue).

Fig 2: Dosing of "Magic Mushroom" Edible Samples



This bar graph compares the milligram concentration of the active ingredients (PsilocinEQ and 4-AcO-DMT) in various mushroom edibles acquired by the LA Times (Figure 2) and tested through Tryptomics Laboratory (below), both per serving and per package. The blue bars represent the dosage per serving, while the light grey bars extend to show the total dosage per package. Sample names highlighted in red indicate the presence of 4-AcO-DMT. Labels next to each bar display the number of servings per package, helping readers understand the portion sizes and overall potency of each product. (PsilocybinEQ = (Psilocybin (mg/serving) × 0.719) + Psilocin (mg/serving))

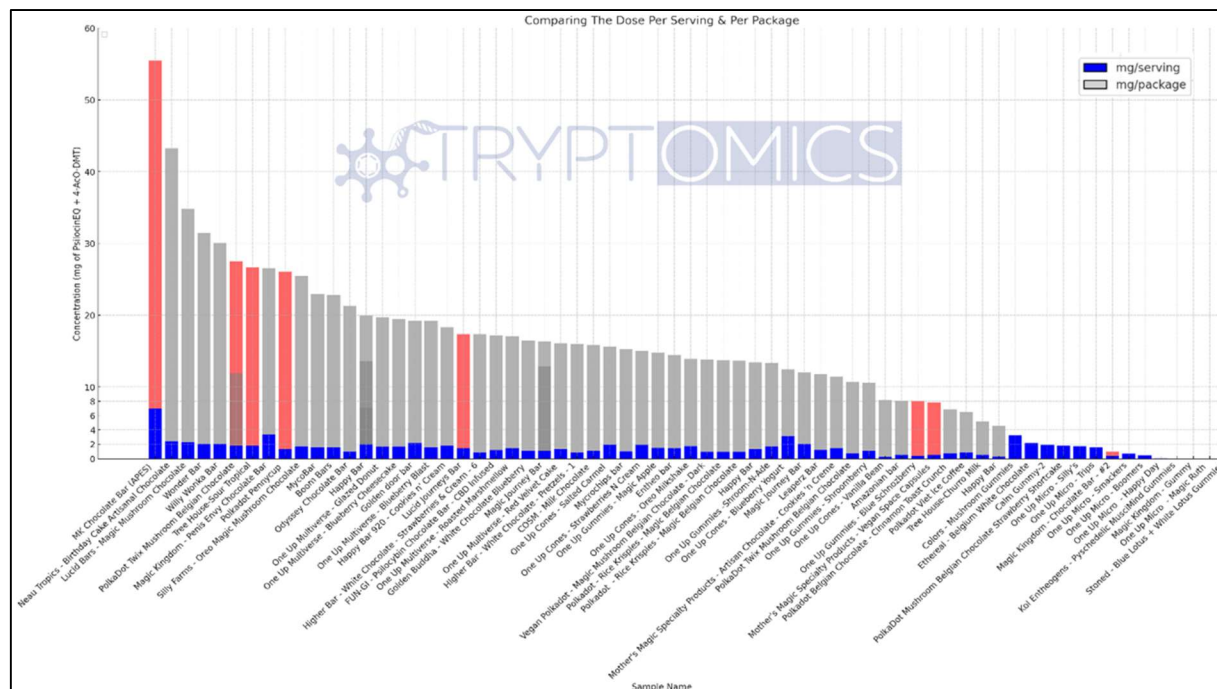
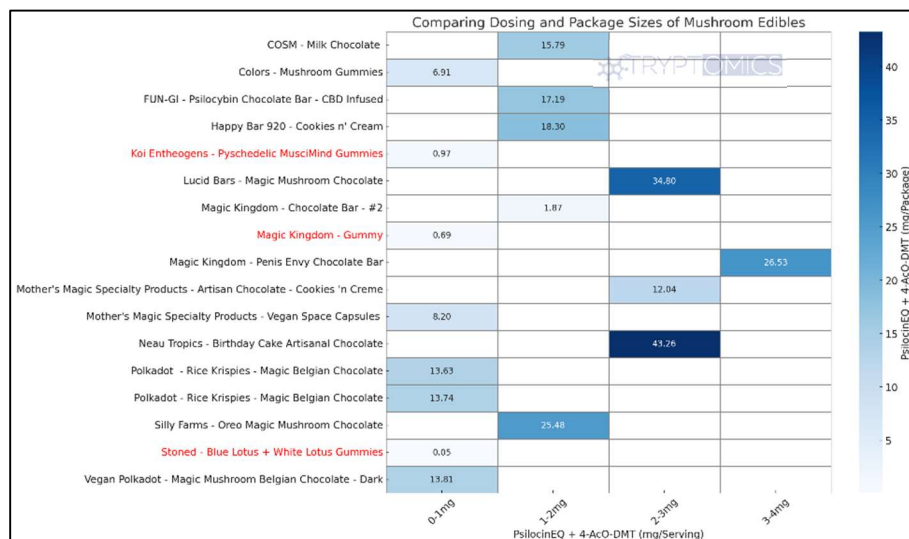


Fig 3: Package Size vs. Serving Dosing of “Magic Mushroom” Edible Samples


These heatmaps focus on mushroom edibles analyzed for the LA Times (Left) and other samples analyzed by Tryptomics Laboratory (Below). It compares the dosing and package sizes by illustrating the concentration of PsilocinEQ and 4-AcO-DMT. The color intensity, ranging from white to blue, indicates the amount of these compounds per package, with darker shades representing higher concentrations. The x-axis bins categorize the dosage per serving in 1 mg increments. Sample names in red denote the presence of the compound

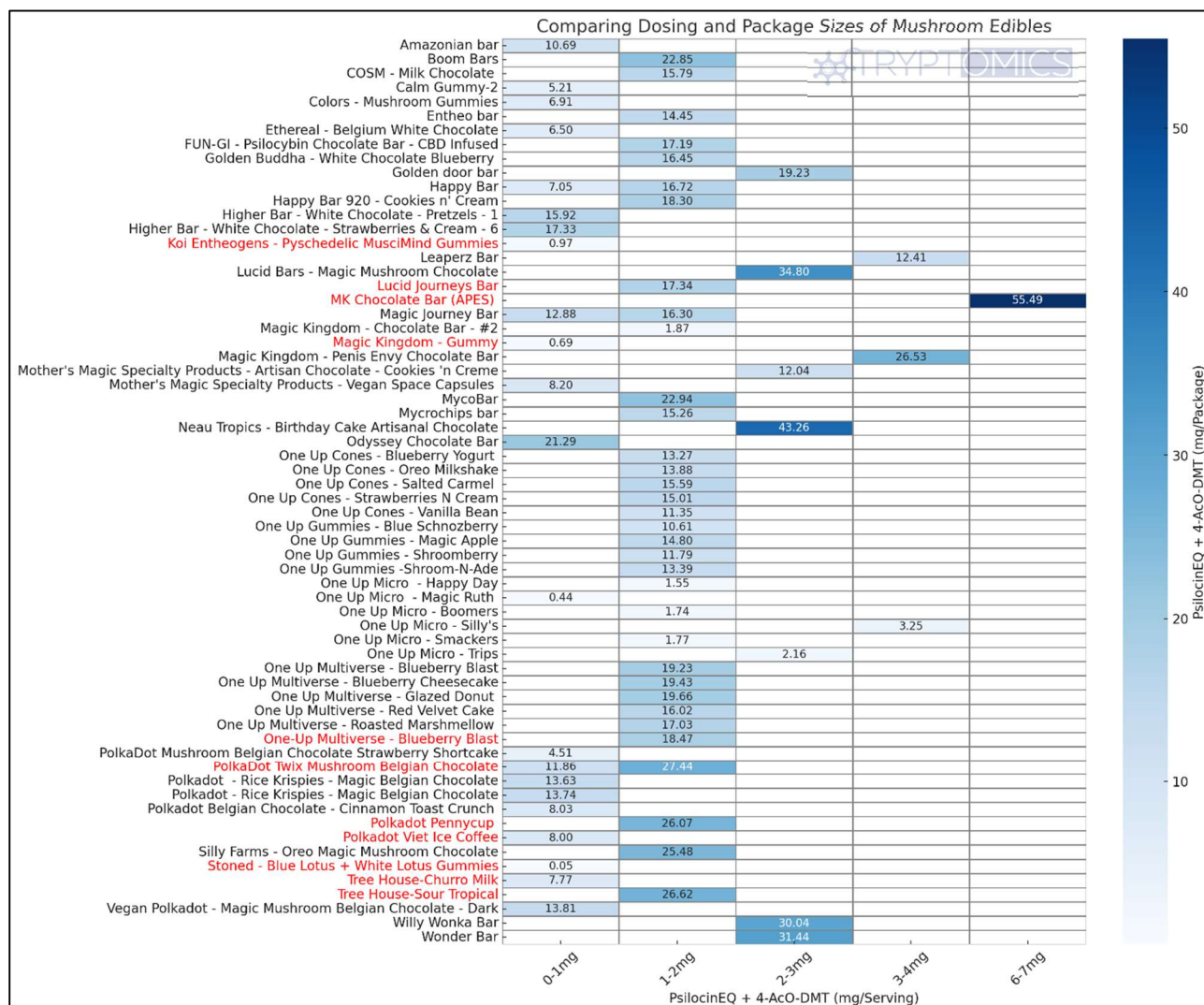
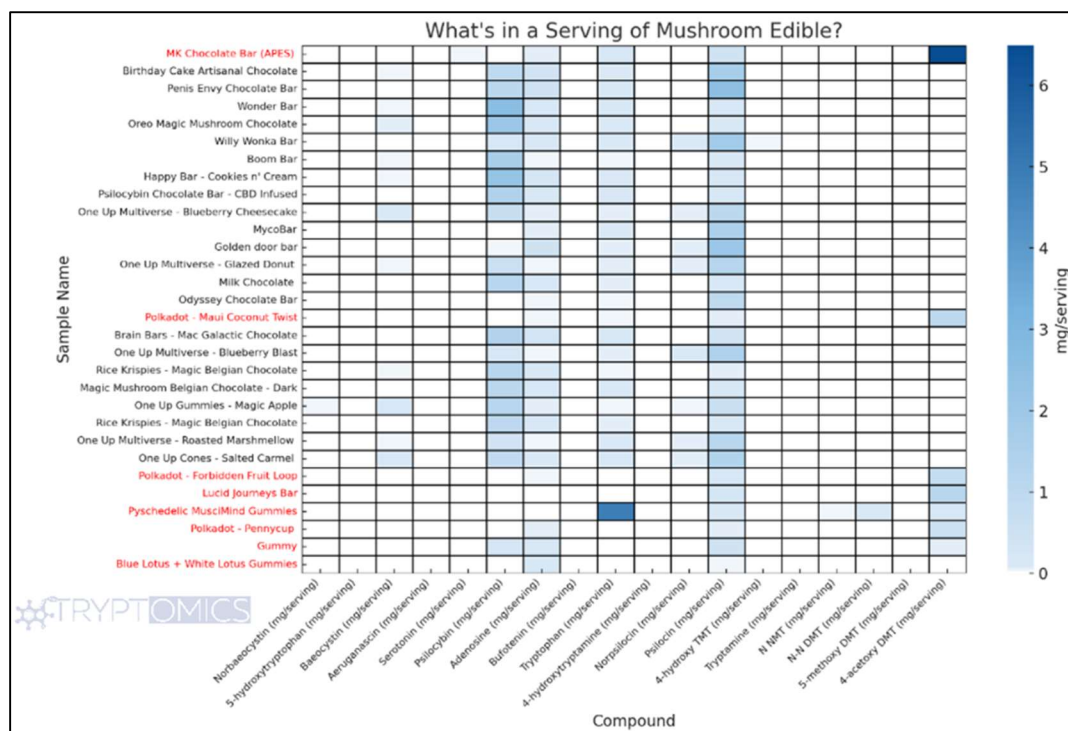


Fig 4: Chemical Content per Serving of “Magic Mushroom” Edibles


This heatmap visualizes the compound values per serving (mg/serving) for various mushroom edible samples, ordered from highest to lowest total analyzed active (mg/package) values. Each row represents a sample, and each column represents a specific compound. The intensity of the blue color indicates the concentration of each compound within a serving of the sample. The samples containing 4-AcO-DMT are specifically highlighted in red for easy identification.



This heatmap on the right represents the concentrations of various compounds (in mg/serving) in each sample submitted by the LA Times. The rows correspond to different compounds, and the columns correspond to sample names. The color intensity indicates the amount of each compound, with darker shades of blue representing higher values. Values of 0.00 were above LOD, but below LOQ. The logarithmic color scale ensures that lower non-zero values are noticeable.

Key Takeaways:

PsilocinEQ (mg/serving):

- **Average:** 1.16 mg/serving
- **Highest:** 3.32 mg/serving (Magic Kingdom - Penis Envy Chocolate Bar)

PsilocinEQ (mg/package):

- **Average:** 13.29 mg/package
- **Highest:** 43.26 mg/package (Neau Tropics - Birthday Cake Artisanal Chocolate)

Total Analytes (mg/serving):

- **Average:** 1.97 mg/serving
- **Highest:** 5.34 mg/serving (Koi Entheogens - MusciMind Gummies)

Total Analytes (mg/package):

- **Average:** 21.36 mg/package
- **Highest:** 56.87 mg/package (Neau Tropics - Birthday Cake Artisanal Chocolate)

Significant Variability in Potency:

These samples exhibit significant variability in Psilocin Equivalent (PsilocinEQ) content per serving and per package. The highest potency sample (**Magic Kingdom - Penis Envy Chocolate Bar**) contains 3.32 mg of PsilocinEQ per serving, while the lowest (**Tesla Bar - Amanita Magic Mushroom Belgian Chocolate - Sticky Charms**) contains no tryptamines but did contain isoxazoles compounds found in Amanita mushrooms. The average PsilocinEQ dose per serving among all the samples was 1.16 mg.

The Equation for *Psilocin Equivalent* is: $PsilocinEQ (mg) = Psilocybin (mg) \times 0.719 + Psilocin (mg)$

Chemical Outliers:

The **Koi Entheogens - Psychedelic MusciMind Gummies** stand out with a rich chemical profile, containing measurable amounts of Phenylethylamine, Tryptophan, Psilocin, N,N-DMT, N-NMT, and 4-AcO-DMT. Other samples, like **Magic Kingdom - Gummy**, **Koi Entheogens - Psychedelic MusciMind Gummies**, and **Stoned - Blue Lotus + White Lotus Gummies** also include 4-AcO-DMT, albeit in lower concentrations. Furthermore, **SporesMD - Legal Psychedelic Infused Mushroom Gummies - Fruit Loopy** and **Tesla Bar - Amanita Magic Mushroom Belgian Chocolate - Sticky Charms** did not have tryptamines present but were found to contain isoxazoles compounds found in Amanita mushrooms.

Importance of Comprehensive Testing:

The detailed analysis of **the naturally occurring and synthetic-derived tryptamines** among other analytes underscores the importance of comprehensive testing to understand the full chemical profile and potential effects mushroom chocolates may have on the consumer. While potency testing is a step towards ensuring consumer safety, additional safety testing including heavy metals, pesticides, and microbial analyses are generally recommended for natural product based packaged goods to ensure consumers are aware of all active compounds and can make informed decisions.