

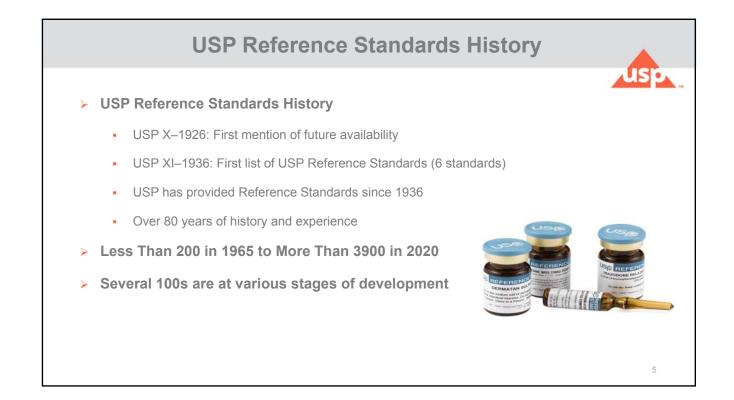
USP Reference Standards Development

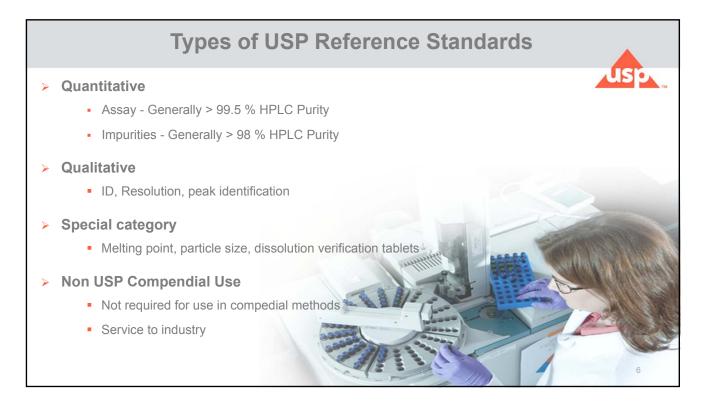
Reference Standards Evaluation

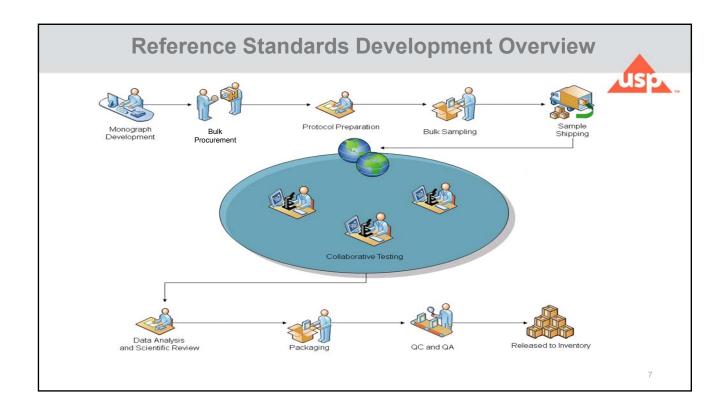
USP Reference Standards

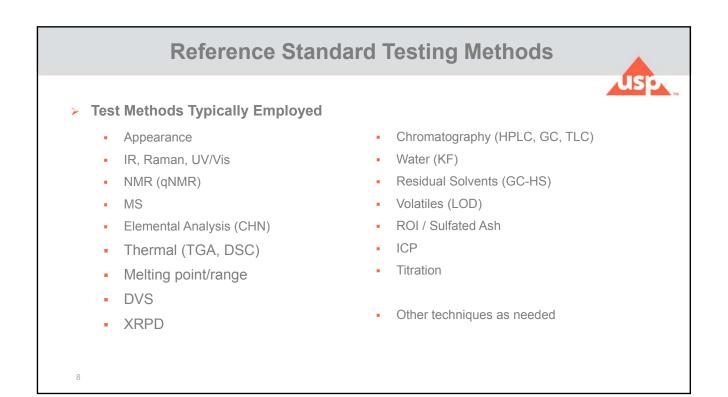
- Highly characterized specimens of
 - Drug substances
 - Excipients
 - Impurities
 - Biologics
 - Food Ingredients
 - Dietary Supplements
 - Compendial Reagents
 - Performance Test Tablets
- Rigorously tested within USP Labs, Industry, and Government Labs
- > Intended for use in Compendial Methods
- Users are responsible for determining the suitability of use for non-USP compendial use

usp

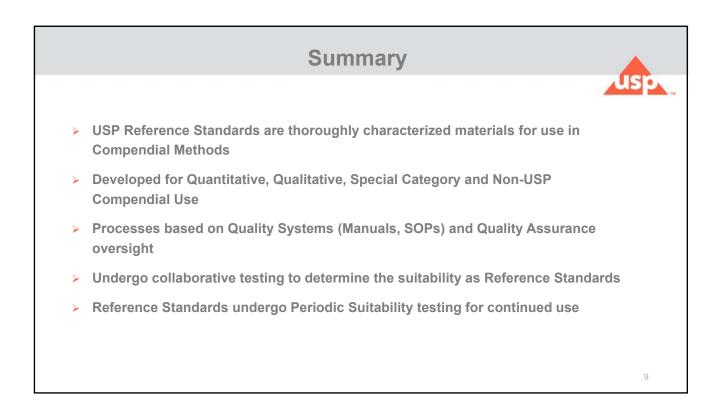


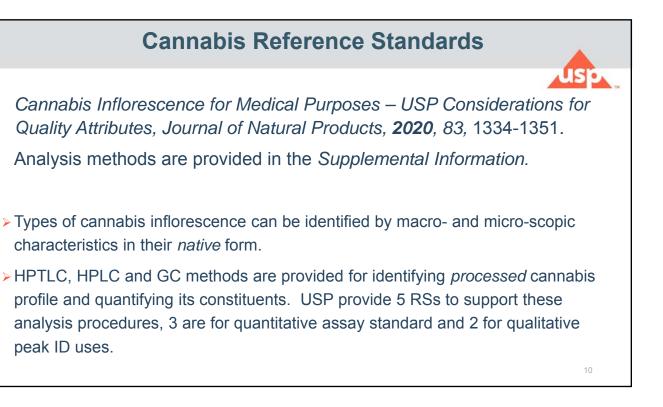


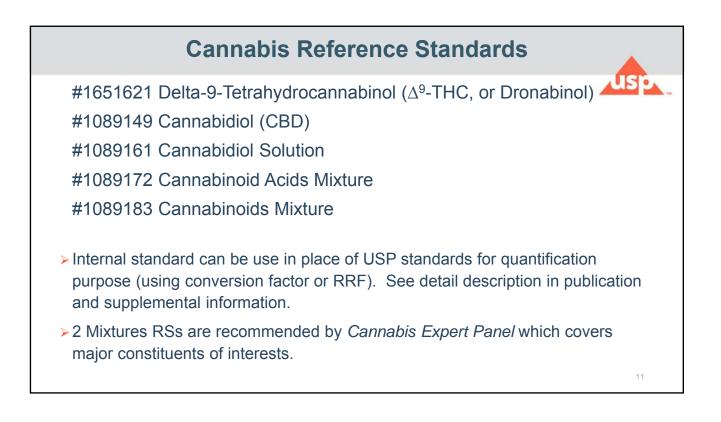




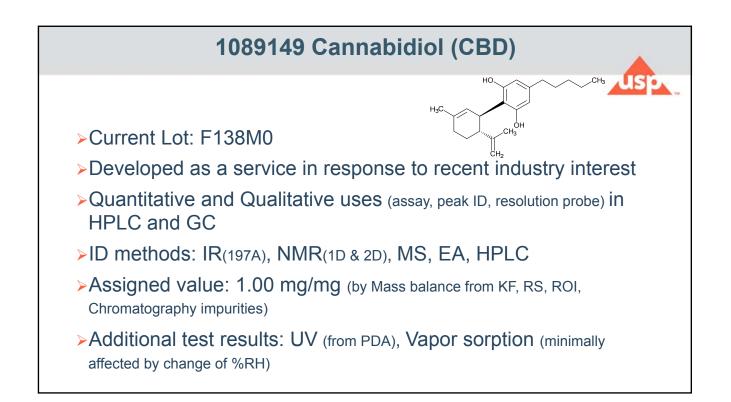
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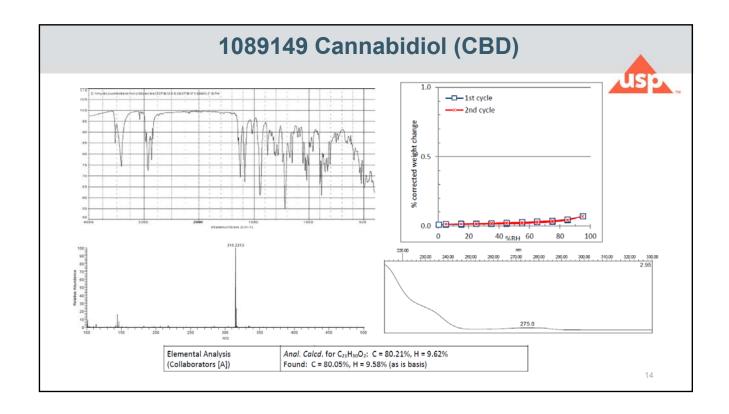






| 1651621 Delta-9-Tetrahydrocannabinol (^{A9} -THC) | | | | | | | | | | | | | | |
|---|----------------------|--------------|------|-------|----------------------|-------------|-------------------------------|--|--|--|--|--|--|--|
| ≻(| ≻Current Lot: R045H0 | | | | | | | | | | | | | |
| >Monograph uses: | | | | | | | | | | | | | | |
| | Monograph | Compendium | ID | Assay | Related Compounds | Dissolution | Uniformity of Dosage Units | | | | | | | |
| | Dronabinol | USP 42/NF 37 | , | | HPLC | | | | | | | | | |
| | Dronabinol Capsules | USP 42/NF 37 | HPLC | HPLC | | HPLC | HPLC | | | | | | | |
| ID methods: IR(197F), NMR(1D & 2D), MS, TLC, HPLC Assigned value: 0.995 mg/mL in Methanol (Assay against previous lot) | | | | | | | | | | | | | | |





| Analyte/Test | Reported As | Collaborator Test Result | | | | |
|--|-------------------|--------------------------|------------|--------|------|---------|
| Test Reference | (units) | [A] | [A] | [A2] | [D] | Average |
| Water, (KF) <921> | %w/w | 0.01 | 0.03 | 0.01 | | 0.02 |
| Residual Solvents, (RS) <467> | %w/w | NR | NR | NR | | 0.00 |
| Residue on Ignition, (ROI) <281> | %w/w | 0.03 | 0.02 | 0.00 | | 0.02 |
| Chromatographic impurities, (T) Journal of Natural Products | %TDA | 0.00 | | 0.02 | 0.00 | 0.01 |
| $=[(100.0 - \Sigma\%TDA) \div 100] \times [(100.0 - [(100.0 - T) \div 100] \times [(100.0 - (KF + [(100.0 - 0.01) \div 100] \times [(100.0 - (0 - 0.9995)]]$ | RS + ROI)) ÷ 100] | ÷ 100] = | 0.9999 x C |).9996 | | |

