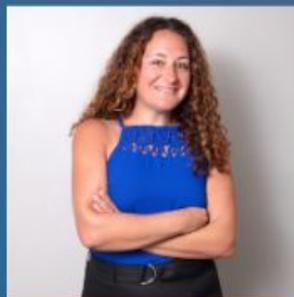




TEXAS
CANNABIS
POLICY
CONFERENCE

Safety & Risk: Synthetic, Converted, Natural Cannabinoids

Friday, January 30 | 11:30am-12:30pm



Andrea Baillo, PhD

Rooted For Success



Nick Mortillaro

Evokanna, HILT, ViceVending



Lisa L. Pittman

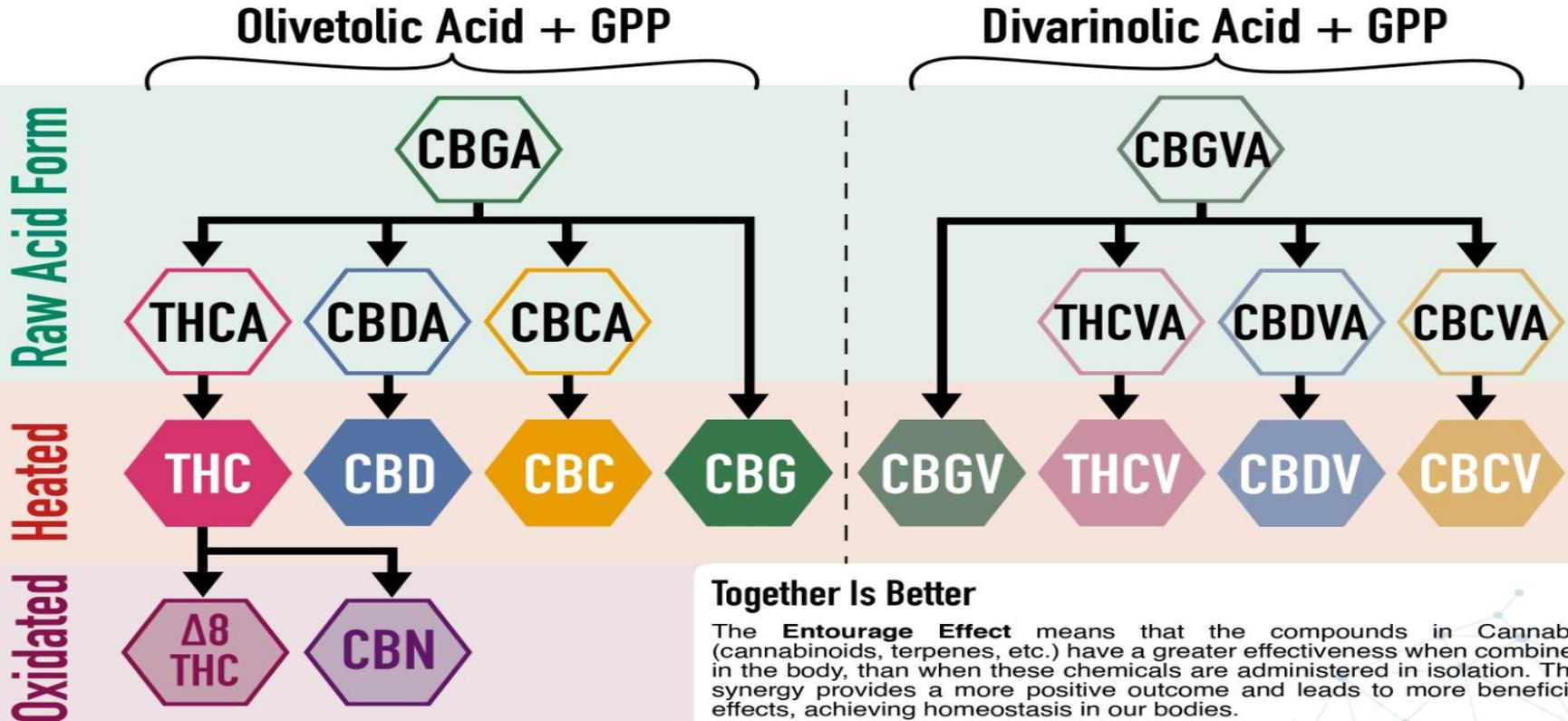
Pittman Legal



Nishi Whiteley

CReDO Science

Cannabinoid Decarboxylation Process



TEXAS DEFINITIONS (REGULATORY LENS)

Phytocannabinoid

- Chemical substance created naturally by *Cannabis sativa L.*
- Extracted by mechanical or chemical processes **or**
- Binds to or interacts with cannabinoid receptors of the ECS
- Produced by decarboxylation (without chemical catalysts) from naturally occurring cannabinoid acids

Converted CBx

- Chemical substance purposely created by converting a phytocannabinoid
- Intended to mimic a phytocannabinoid or interact with the endocannabinoid system
- Excludes delta-9 THC or other CBx approved by the commission

Synthetic CBx

- Man-made chemical substance created by chemical synthesis, modification, conversion, in-vitro biosynthesis, or bioconversion
- Intended to mimic phytocannabinoids or interact with the endocannabinoid system
- Excludes delta-9 THC produced from hemp-derived CBD

Statutory language used for regulatory classification and enforcement.

ASTM D37 PROPOSED LANGUAGE (TECHNICAL LENS)

Natural CBx

- Generated through biological processes in the plant
- May include decarboxylation via heating or burning
- Typically accompanied by botanically related substances

Semi-synthetic / Converted CBx

- Generated from **botanical precursors** using chemical synthesis
- Typically includes botanically related substances **and** synthesis impurities

Synthetic CBx

- Generated from **non-botanical precursors** using chemical synthesis
- Typically includes synthesis impurities and lacks botanically related substances

ASTM standards are descriptive tools, not approvals or prohibitions.

Two Lenses, One Goal

Texas (Policy Lens)	ASTM (Technical Lens)
Intent and outcome based	Process and composition based
Enforceable boundaries	Descriptive classification
Public health protection	Technical clarity
Category driven	Marker driven

What it Means in Practice

- Intent is harder to measure than chemistry
- Categories don't automatically = safety
- The same molecule can cross categories depending on process
- Definitions manage risk, but don't replace testing
- Alignment matters more than perfection

Definitions are tools to manage uncertainty, not conclusions about safety.

DECISION TREE: Classifying Unknown Cannabinoid Samples (Natural, Semi-Synthetic, Synthetic)

