

Caliper 5% CBD Powder delivers CBD into the bloodstream **significantly faster** — **142x** faster than isolate and **22x** faster than tinctures*

Clinical Substantiation Matters

At Caliper Ingredients, we invest heavily in **credible research to substantiate our product claims**. Pharmacokinetic data (including rate and speed of absorption) are a critical foundation for claims such as **"fast acting,"** or **"superior bioavailability."** This is the **first human clinical substantiation** of such claims—and the first to do so using **commercially available CBD products**.

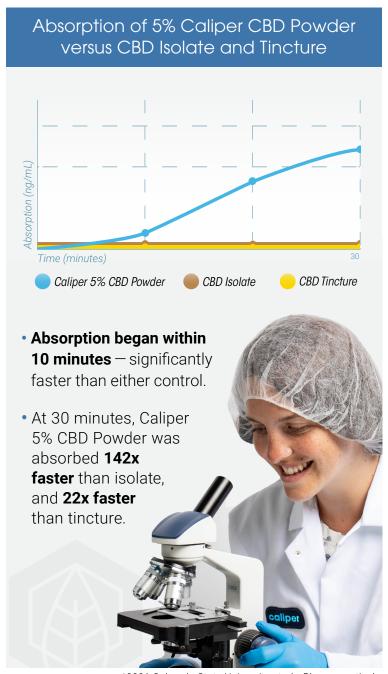
THE STUDY

Human Subjects, Rigorous Design

Colorado State University researchers compared pharmacokinetics of Caliper's suite of soluble cannabinoid ingredients against two controls: oil-based CBD tincture and unemulsified CBD isolate—the forms most widely available to today's consumers.

- Colorado State University IRB-approved
- Double-blind, randomized crossover design
- 15 healthy male & female subjects, ages 21–62
- 30mg dose of each product given on five different days
- All subjects had fasted for 6 hours
- Blood samples were taken at 0,10, 20, 30, 45, 60, 120, 180, & 240 minutes following ingestion
- CBD blood levels were determined using UHPLC mass spectrometry

All Caliper CBD ingredients absorbed dramatically faster than oil-based CBD tincture or CBD isolate.



*2021 Colorado State University study, *Pharmaceuticals*.

We're ready to help you innovate with clinically proven cannabinoid products.



We are ready to help move your cannabinoid innovation forward.

Contact your account manager or email us at ingredients@caliper.life

Product Name	Cannabinoid Concentration	Applications & Benefits	Incorporate By
LIQUID			
20% CBD Liquid Concentrate (SKU: T-L-Q-20)	20% CBD	RTD beverages, shots, gummies, baked goods, confections,	6 months from date of
20% Composed Broad Spectrum Liquid Concentrate (SKU: CB-L-Q-20)	20% CBD 1% CBG		
5% CBD Liquid Concentrate (SKU: T-L-A-5)	5% CBD	topicals. Excellent heat	manufacturing.
5% Composed Broad Spectrum Liquid Concentrate (SKU: CB-L-A-5)	5% CBD 0.25% CBG	& process stability.	
POWDER			
5% CBD Powder (SKU: T-P-S-5)	5% CBD	Bars, drink mixes,	
5% Composed Broad Spectrum Powder (SKU: CB-P-S-5)	5% CBD 0.25% CBG	gummies, capsules, tablets.	14 months
10% CBD Powder (SKU: T-P-S-10)	10% CBD	Flowable powder, long shelf-life,	from date of manufacturing.
10% Composed Broad Spectrum Powder (SKU: CB-P-S-10)	10% CBD 0.5% CBG	quick dissolving.	















Non-GMO | Kosher | Vegan | All Natural Flavors | Gluten-Free | Sugar-Free | Preservative-Free