



Smart Cannabis & Hemp Analysis





GemmaCert®

Be Certain. Stop Guessing.



Our Vision

To improve the health and wellbeing of individuals and communities by setting the standard for cannabis quality.



Quality Control Today

I never know if the cannabis I get is right for me. Sometimes it gives me anxiety and I cannot sleep. I wish the labels were as accurate as with all other medications.

Cancer Patient Testimonial,
Israel



Today's Challenges

Lack of Trust

Anecdotal Evidence

Uncertainty

Quality Issues

Quality isn't just about providing a better product, it's about building trust with consumers and regulators.

Why Choose GemmaCert®

Global Innovation



Specificity

Distinguish between Cannabis & Hemp (THC < 0.3%)

Market Pioneer



Improving over Time

Over-the-air software updates improve performance and user experience

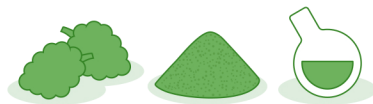
Unique Technology



Non-Destructive

No Sample Preparation
No Sample Distraction

Global Innovation



Multifunctional

Testing three forms
(whole flower, ground, extract)



The industry winners will be those who will invest in Quality Control to ensure that products are consistent, safe, effective and predictable.

Dr. Guy Setton,
Founder & CEO, GemmaCert

With GemmaCert we saved 18% on our latest purchase of cannabis flowers.

Our supplier claimed the flowers he delivered had a THC level of 22% but with GemmaCert we tested flowers on the spot and discovered that the THC level was 16%.

We bought the flowers for EUR 18,000 instead of the original asking price of EUR 22,000.

Coffeshop Manager,
Amsterdam



Simple, Sleek & Smart

What's Powers GemmaCert®?

Cloud-based patented AI-driven real-time solution

Spectroscopy, image analysis and motion mechanics

World's largest database of flower spectra

Operated by smartphone app

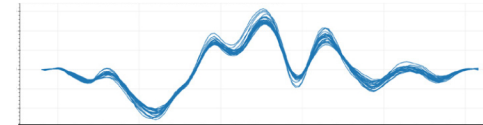


U.S. Patent No. US10458908B2

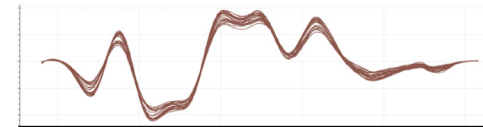


What's Really Inside Your Cannabis?

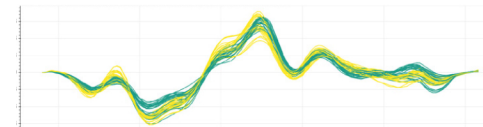
Each cannabis flower is special and each one has its unique spectral fingerprint which GemmaCert accurately analyzes applying advanced data analytics.



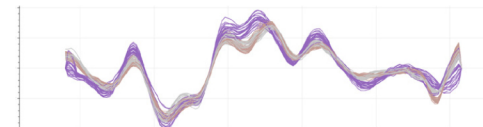
High THC



High CBD

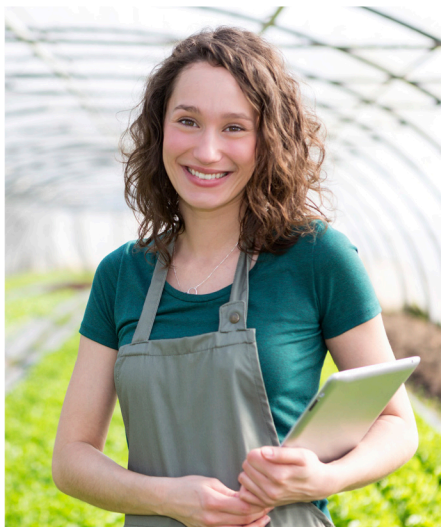


Hemp



Balanced THC/CBD

The GemmaCert® Solution is The Business Tool for Cannabis Professionals



**Breeders &
Growers**



**Extract
Producers**



**Pharmacies &
Clinics**



**Dispensaries &
Coffee Shops**

Technical Information & Specs

Purpose: Cannabis Analysis

Results: Total THC and Total CBD ¹⁺²

What products does it test: Dry flower buds ³, ground flower buds & extract ⁴.

What technology does it use: NIR Spectroscopy, Image Analysis and Data Analytics

How long does an analysis take: Between 2 to 5 minutes

Is any sample preparation required: No

Sample usability after testing: Nondestructive testing – sample left intact after analysis

Calibration requirement: Automatic. Before analysis and no user input required

User interface: Android & IOS App ⁴

Components: Spectrometer, Illumination, Camera, Motion System, Control and Communications Module

Accuracy: RMSE ^{1 6}

Min. detection threshold 0.2% (THC, CBD)

Max. detection threshold 30% THC, 20% CBD (Updated Dec 2019)

Portability: Portable desktop unit

Connectivity: Bluetooth

Power source: 6vdc by standard 110/220 ac2dc power supply

Storage temperature: -10c to +45c (14F - 113F)

Operating temperature: +10c to +35c (50F - 95F)

Dimensions: Height 224mm; Diameter top 144mm; bottom 166mm

Weight: 1958g (including power supply)

Regulatory compliance: CE, UL, ROHS

Maintenance: Dispose of bud particulars

Warranty: Lifetime warranty, unlimited

1. Total THC = 0.877 THCA + Δ9THC; Total CBD = 0.877 CBDA + CBD
2. New analytical capabilities if future over-the-air software updates.
3. moisture content < 15% (MC)
4. Future upgrade will test cannabis extract.
5. Coming soon.
6. GemmaCert performance validated by licensed labs.