

GemmaCert Specification

Purpose:	<i>Cannabis potency</i>
Analysis Results:	<i>Total THC and Total CBD* **</i>
What products does it test:	<i>Dry flower buds (future upgrades for ground flower buds and cannabis oil)</i>
What technology does it use:	<i>NIR Spectroscopy, Image Analysis and Data Analytics</i>
How long does an analysis take:	<i>Between 2 to 4 minutes</i>
Is any sample preparation required:	<i>No</i>
Sample usability after testing:	<i>Nondestructive testing – sample left intact after analysis</i>
Calibration requirement:	<i>Automatic, before analysis</i>
User interface:	<i>Android Smartphone; iOS with future release</i>
Components:	<i>Spectrometer, Illumination, Camera, Motion System, Control and Communications Module</i>
Accuracy:	<i>The given result has an accuracy of 1% RMSE</i>
Portability:	<i>Portable desktop tool</i>
Connectivity:	<i>Bluetooth</i>
Power source:	<i>6vdc by standard 110/220 ac2dc power supply</i>
Storage temperature	<i>-10°C to +45°C (14°F - 113°F)</i>
Operating temperature:	<i>+10°C to +35°C (50°F - 95°F)</i>
Dimensions:	<i>Height 224mm; Diameter top 144mm bottom 166mm</i>
Weight:	<i>≈1958 g (inc. power supply)</i>
Regulatory compliance:	<i>CE , UL , ROHS</i>
Maintenance:	<i>Dispose of bud fallout</i>
Warranty:	<i>One (1) year following delivery</i> <i>Applies to electronic, mechanical and optical failures not related to physical damage because of device mishandling.</i>

* Total THC = 0.877 THCA + Δ9THC; Total CBD = 0.877 CBDA + CBD.

** Analysis of additional cannabinoids and moisture with upcoming software updates.