



Big Sur Scientific LLC

Making Cannabis Safe for the World

The BSS 2000 Cannabis Analyzer



- **Fast and Easy** – Push button operation gives potencies in less than 2 minutes!
- **Representative Results** – easily analyze multiple samples from each batch or grow, getting a truly representative picture of your product or process
- **No Sample Preparation** – no dissolving or grinding samples, analyze them as is.
- **Accurate** – Potency accuracies to better than ± 1.5 weight %.
- **Little Sample Sacrifice** – only a few milligrams are needed.
- **Save Time and Money** – No need to send samples to outside labs for slow and expensive analysis. Do it yourself and get immediate results!
- **Pre-calibrated** – Works right out of the box

Here is how the Cannabis Industry Uses the BSS 2000 Cannabis Analyzer

1. **Extractors** – Measure oil potency for increased quality and better process control.
2. **Growers** – Measure bud potency to optimize harvest time and growing conditions.
3. **Dispensaries** – Know exactly what you are buying, analyze at point of sale for your customers, and track shelf life. *Extracts lose potency quickly, see our Application Note.*
4. **Buyers/Brokers** – Analyze onsite to set the right purchase price.

How it Works

The BSS 2000 uses the amount of mid-infrared (MIR) light absorbed by a sample to measure the amounts of cannabinoids and terpenes in samples. Using MIR light maximizes sensitivity and selectivity, which is why we can quantitate both acid and non-acid cannabinoids.

Specifications

Sample Types	Buds, oils, extracts, shatter, resin, rosin, sugar, & wax
Cannabinoids Quantitated in Cannabis Oils	THCA, THC, CBDA, CBD, CBGA, CBG, CBN, CBC, THCV, Total THC, Total CBD, and Total CBG.
Terpenes Quantitated in Cannabis Oils	Myrcene, β -Caryophyllene, Limonene, α -Pinene, Linalool, α -Humulene, Nerolidol, α -Terpinene, γ -Terpinene, Terpinolene, and Camphene
Cannabinoids Quantitated in Cannabis Buds	THCA, THC, CBDA, CBD, CBN, Total THC, and Total CBD
Cannabinoids Quantitated in Cannabis Solids (shatter, resin, rosin, sugar, & wax)	THCA, THC, CBDA, CBD, CBN, Total THC, and Total CBD
Technique	Mid-Infrared
Algorithm	Partial Least Squares
Accuracy	Better than $\pm 1.5\%$
Weight	3 lbs
Dimensions	6" x 3.25" x 6"
Power	110 V AC
Software	Big Sur Scientific Cannabis Analyzer Software running on Microsoft Surface Pro Tablet computer (included). Windows 10 operating system.
Sample Size	5-10 milligrams