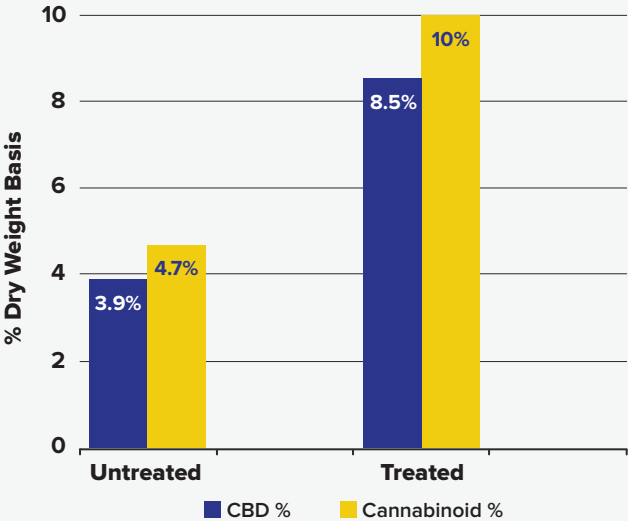




Hemp Extender: Premixed Concentrate CBD Preservation in Harvested Biomass

Pictured: Blue Forest Farms in Longmont, CO

**CBD Preservation After 30 Days
at Ambient Summer Temperatures**



Problem | Current Landscape

- CBD and other cannabinoids degrade immediately upon harvest when moisture is present.
- After 30 days in storage, farmers experience a 50% loss in CBD.
- Molds and fungus contribute to biomass degradation and are undesirable contaminants.
- The end result is unusable inventory due to unacceptable CBD concentrations.
- Low levels of CBD become uneconomical to extract.

Solution | New Landscape

- Naturally occurring microbes are selected for their anti-fungal properties and amplified in our state of the art facility.
- Natural metabolites preserve cannabinoid levels upon application and reduce product loss.
- Laboratory tests show **greater than 2 times** more CBD and total cannabinoid after one month at ambient temperatures (post harvest conditions) as compared to untreated hemp.

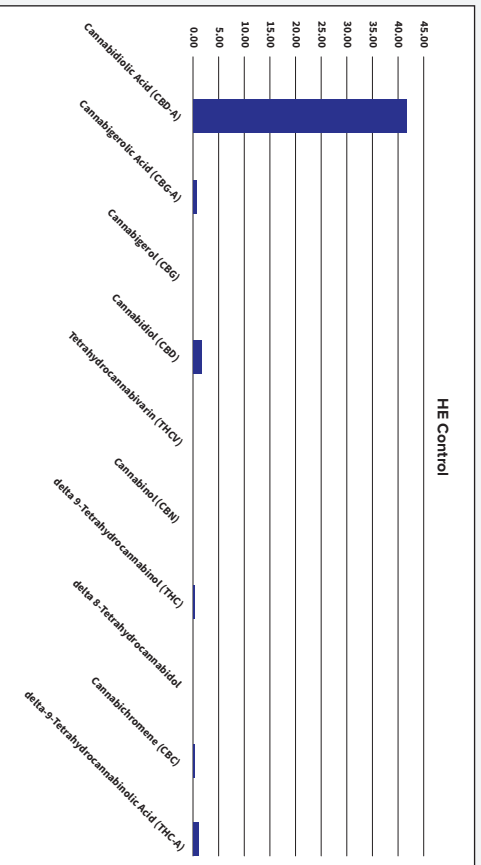


Cannabinoid Profile

Problem | Current Landscape

Cannabinoids (HPLC)				
	LOD (mg/g)	%	mg/g	
Cannabidiarin (CBDV)	<0.1			
Cannabidiolic Acid (CBD-A)		4.17	41.7	
Cannabigerolic Acid (CBG-A)		0.06	0.556	
Cannabigerol (CBG)		0.02	0.207	
Cannabidiol (CBD)		0.20	1.96	
Tetrahydrocannabivarin (THCV)	<0.1			
Cannabinol (CBN)	<0.1			
delta 9-Tetrahydrocannabinol (THC)		0.04	0.381	
delta 8-Tetrahydrocannabinol	<0.1			
Cannabichromene (CBC)		0.04	0.447	
delta-9-Tetrahydrocannabinolic Acid (THC-A)		0.15	1.520	
Cannabinoids Total			%	mg/g
Max Active THC		0.17	1.71	
Max Active CBD		3.85	38.46	
T. Active Cannabinoids		0.299	2.99	
Total Cannabinoids		4.67	46.7	
Ratios				
22.96:1 CBD to THC			0.04:1 THC to CBD	

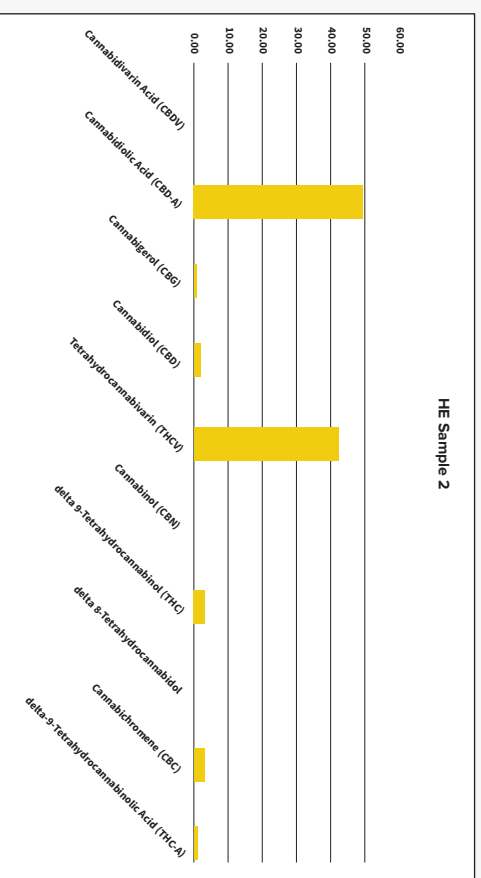
Cannabinoid (mg/g)



Solution | New Landscape

Cannabinoids (HPLC)				
	LOD (mg/g)	%	mg/g	
Cannabidiarin (CBDV)	<0.09			
Cannabidiolic Acid (CBD-A)		4.93	49.3	
Cannabigerolic Acid (CBG-A)		0.09	0.937	
Cannabigerol (CBG)		0.15	1.49	
Cannabidiol (CBP)		4.19	41.9	
Tetrahydrocannabivarin (THCV)	<0.09			
Cannabinol (CBN)	<0.09			
delta 9-Tetrahydrocannabinol (THC)		0.29	2.90	
delta 8-Tetrahydrocannabinol	<0.09			
Cannabichromene (CBC)		0.23	2.27	
delta-9-Tetrahydrocannabinolic Acid (THC-A)		0.08	0.821	
Cannabinoids Total			%	mg/g
Max Active THC		0.36	3.62	
Max Active CBD		8.52	85.20	
T. Active Cannabinoids		4.86	48.6	
Total Cannabinoids		9.96	99.6	
Ratios				
24.54:1 CBD to THC			0.04:1 THC to CBD	

Cannabinoid (mg/g)



Van Grow utilizes NIST Traceable Reference Standards and Certified Reference Material to calibrate analytical instruments along with proven analytical methods. The methods are applied in the most ethical manner following good laboratory practice guidelines. The results of this report are based solely on the sample submitted and cannot be reproduced.