



IN THIS ISSUE

- **NEW Cannabinoid Validation for Gummies**
- **EXPANDED Terpenes Library**
- **Feature Article: NUTRITION AND CANNABIS QUALITY**
- **Business News: DEVERON PARTNERSHIP**
- **Upcoming Industry Events & GROWER DAY PROMO CODE**
- **CANNABIS TEAM: New Additions Across Canada**

SERVICE OFFERING UPDATES

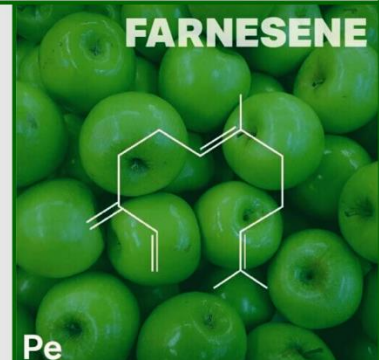
NEW Cannabinoid Validation for Gummies!

Cannabinol (CBN) & Cannabigerol (CBG) have been added to the gummies validation.

EXPANDED Terpenes Library! (39 available)

A&L Canada Labs has further extended its library of terpenes with the addition of E-Beta-Farnesene.

Farnesene is commonly found in fruit rinds and is responsible for the characteristic “green apple” scent. It is becoming more prominent in the cannabis market due to its medicinal benefits.



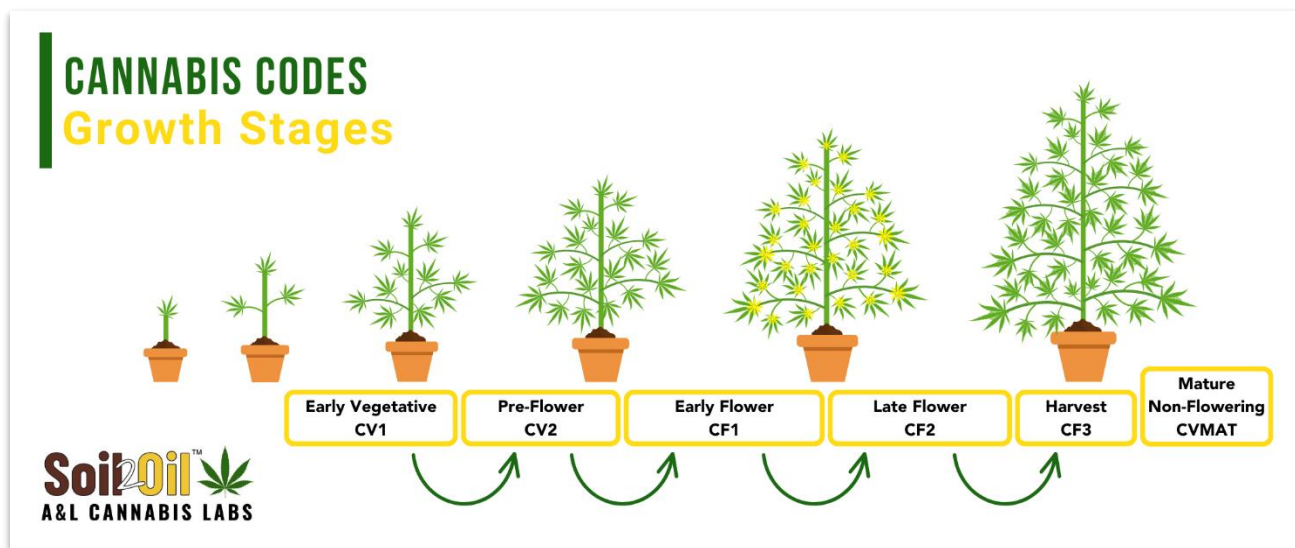
FEATURE ARTICLE

NUTRITION AND CANNABIS QUALITY

At A&L, our full-service laboratory provides comprehensive testing and production services for the cannabis and hemp industry. As Canada's most trusted lab, we understand that agronomy is one of the key factors in growing a high-quality crop.

MANAGING CROP QUALITY

Cannabis strains have the genetic potential to produce varying levels of cannabinoids (THC, CBD) and terpenes. Nutrition during the different growth stages has a direct relationship to the biosynthesis of these compounds as well as yield. The burn quality of bud is also related to nutrition and can be managed through a combination of good fertility program inputs and regular tissue sampling during the vegetative and flowering stages. ***Understanding the plant's nutrient requirements is critical to producing high quality cannabis, crop after crop.***



THE ROLE OF AGRONOMY IN CANNABIS

A&L cannabis nutrition research provides a framework for the planning and monitoring of a successful crop from start to finish. A good fertility program begins with determining how much of each nutrient is needed for optimum plant health and how much will be removed by the harvest per unit of production. Soil tests are an agronomic tool that help us predict the potential of the soil to provide nutrition. Soil health tests add a microbiological component to traditional soil analysis. This is important as the soil is a living ecosystem where the plant cultivates microbes to help with biochemical processes that include nutrient assimilation and uptake. ***Once a fertility plan is established, a grower must be aware of the environmental factors that can influence nutrition.***



FACTORS AFFECTING NUTRITION

Environmental factors that affect plant growth include light, temperature, water, humidity, and nutrition. It's important to understand how these factors affect plant growth and development. For example, irrigation water can have a negative impact on plant health. High bicarbonate levels restrict the availability of calcium (Ca), and magnesium (Mg) in the soil, and lead to more adverse effects by increasing the sodium hazard. ***Testing your irrigation water for suitability is an important part of the "Clean Start" checklist prior to planting.***

A DIFFERENT PERSPECTIVE

CLEAN START CHECKLIST

for Indoor and Outdoor Production

**PLAN to provide the best chance for optimal production
mitigating impact of disease & ensuring optimal plant nutrition
for highest potential **quality & consistency****

1a. TESTING OF ALL INCOMING SUPPLIES AND MATERIALS:

<input type="checkbox"/> WATER	<input type="checkbox"/> MEDIA/SOIL	<input type="checkbox"/> NUTRIENTS
<input type="checkbox"/> DISEASES ON TRANSPLANTS	<input type="checkbox"/> SURFACES	

1b. REGULAR PLANT TISSUE TESTING

<input type="checkbox"/> SET UP A PLANT MONITORING PROGRAM (PMP)	FROM DAY 1 OF PLANTING!
--	--------------------------------

DON'T bring heavy metals, pesticides into your facility from inputs used to grow
 DON'T bring disease and Viroid on plants into your facility

www.alcannabislabs.com

MONITORING NUTRITION USING PLANT TISSUE

The goal of a plant tissue analysis program is to accurately diagnose deficiencies prior to a loss in crop potential. The information can also be used to adjust fertility programs for the following season. Nutrient concentrations in the leaf tissue are directly related to cannabis quality. Enrollment into A&L's Plant Monitoring Program (PMP) provides a report that can be used to easily monitor trends in plant nutrition of your cannabis strains. This strategy provides an opportunity to augment your fertility program with targeted in-season nutrition to promote consistent results in cannabis quality. **Refer to the checklists to guide your fertility plan for the season.**

A DIFFERENT PERSPECTIVE

MONITORING DURING PRODUCTION CHECKLIST

for Indoor and Outdoor Production

**QUALITY MONITORING ensures optimal nutritional levels for highest potential
quality & consistency**

2a.

<input type="checkbox"/> DISEASE TESTING	Disease Testing to confirm presence of pathogens, molds to allow for mitigation strategies
--	--

2b. INPUTS & ENVIRONMENTAL IMPACTS – these affect growth potential and end quality

<input type="checkbox"/> NUTRIENTS	<input type="checkbox"/> WATER FEEDS	<input type="checkbox"/> DISEASE & PATHOGENS
------------------------------------	--------------------------------------	--

<input type="checkbox"/> PLANT TISSUE PLANT MONITORING PROGRAM (PMP)	Plant Tissue – Plant Monitoring Program (PMP) - to optimize in season plant nutrition, maximize yield potential (<i>lack of nutrition = increased disease & insect pressures, etc.</i>)
--	---

www.alcannabislabs.com

Contact us at clientcarecannabis@alcanada.com for more information and help getting started.

BUSINESS NEWS

DEVERON PARTNERSHIP



In April 2021, A&L and Deveron formed a new joint venture company and acquired the assets of Woods End Laboratories. This joint venture and acquisition created a new turn-key soil health platform for the US agricultural market. In May of this year, Deveron invested further into A&L to continue the partnership and bring information technology to farmers across North America.

How does this partnership support the cannabis industry?

The future of cannabis requires more information to help growers produce high quality crops year after year. Our network of technicians across Canada can provide site specific sampling to make sure your crop gets off to a great start. Working together with our in-house agronomists and network of retailers, A&L can better provide the agronomic support required by the industry. The partnership will also provide resources to support the growing cannabis market with investments in lab equipment and staff.

Upcoming Industry Events

Come visit the A&L Cannabis Labs team at any of these events in summer 2022!

Cannabis Wiki

Cannabis Wiki Conference & Expo

June 15 - 16, 2022 – London, Ontario

<https://expo.cannabis.wiki/>

GROWUP

Grow Up Conference & Expo

June 20 - 22, 2022 – Victoria, British Columbia

<https://growupconference.com/victoria/>

GROWER DAY

Cannabis Cultivation Grower Day

June 22, 2022 – St. Catharines, Ontario

<https://www.growerday.ca/>

GROWER DAY IS BACK LIVE IN 2022!

GROWER DAY

HOLIDAY INN & SUITES CONFERENCE CTR
ST. CATHARINES, ON

JUNE 21 & 22, 2022

YOU'RE INVITED!

SAVE 25% USING PROMO CODE
GROWER25

LIMITED SEATING! REGISTER AT: WWW.GROWERDAY.CA

A&L Cannabis Labs Contact Information

For cannabis or hemp related questions, please email: clientcarecannabis@alcanada.com

A&L Canada Laboratories Office

2136 Jetstream Road,
London, Ontario N5V 3P5
Tel: 519-457-2575 · Toll Free: 1-855-837-8347
Main website: www.alcanada.com

Julie Mollard Manager Client Services

Email: jmollard@alcanada.com
Tel. 519-457-2575 ext. 223


Rebecca Aves Cannabis Customer Service Lead

Email: reception@alcanada.com
Tel: 519-457-2575 ext. 240





Quick URL

www.alcannabislabs.com



A&L CANNABIS LABS REPRESENTATIVES ACROSS CANADA





SOUTH SASK + MANITOBA
Jill Debenham
jdebenham@alcanada.com

QUEBEC
Katherine Murray
kmurray@alcanada.com

SOUTH BC + CENTRAL ALBERTA
Ken Galloway
kgalloway@alcanada.com

MARITIMES
Holland Cahill
hcahill@alcanada.com

SOUTH ALBERTA + NORTH CENTRAL SASK
Noah Bertholet
nbertholet@alcanada.com

ONTARIO + CORPORATE ACCOUNTS
Brian Coutts
bcoutts@alcanada.com

ON - ELGIN COUNTY TO GOLDEN HORSESHOE (SOUTH OF 401)
Daryl Patterson
dpatterson@alcanada.com