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What do we do?



Radient manufactures natural ingredients for global customers across a range of industries, including Food and Beverage, Nutrition, Supplements, Pharmaceuticals and Cosmetics. Radient has also entered the cannabinoids market seeking to capture value from the recent opportunities associated with more favorable regulations for marijuana and hemp.

Using a proprietary, patented technology, Radient's products are superior in quality and purity while manufactured at significantly lower cost than incumbent methods thanks to superior yields and efficiency.



Large Opportunity Across Multiple Verticals





- > \$250B market for ingredients from natural sources
- Consumer demand for natural ingredients in each vertical is high.
- Radient's extraction technology is patented, and proven at commercial scale.
- Technology outperforms conventional methods in terms of cost, speed, and purity.
- High margins (50%+), on recurring revenue.
- Diverse customer base that includes Fortune 100 companies in multiple verticals.

¹⁾ Natural Ingredients for Pharmaceuticals and for the Food Industry. Published by SIPPO and (CBI), Zurich 2005

²⁾ Pharmaceutical Price Controls and Innovation Incentives: A Fifty-year U.S. Debate Coming to a Head? Medical Progress Today, October 2011

³⁾ Regulatory: FDA Unveils Biosimilars Guidance. The Burrill Report, February 2012

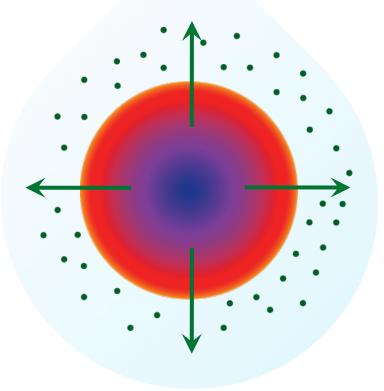
⁴⁾ Life Sciences and Materials Sciences. DSM at a glace. Royal DSM N.V., Fact book, February 2011

b) https://www.equities.com/news/report-the-cannabis-biotech-pharma-market-could-surpass-20-billion-by-2020

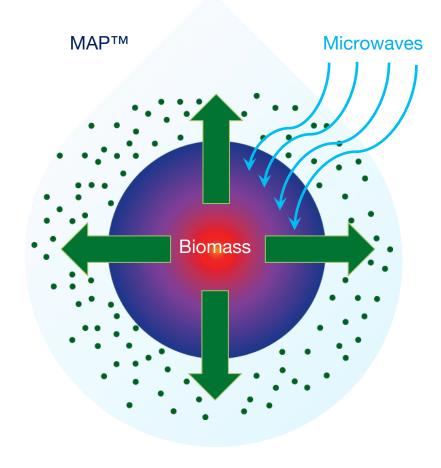
The Core Radient Solution



Solvent phase



Conventional solvent extraction is a diffusion-driven process: relies on concentration gradients



MAPTM causes instant in-core heating creating a pressure-driven process

Technology Highlights



Microwave Assisted Processing ("MAP") outperforms conventional extraction in every important parameter:



Reduces extraction times from hours to minutes.



Delivers higher active ingredient purity.



Increases recovery of actives from often scarce biomass.



Uses significantly less solvent, energy.

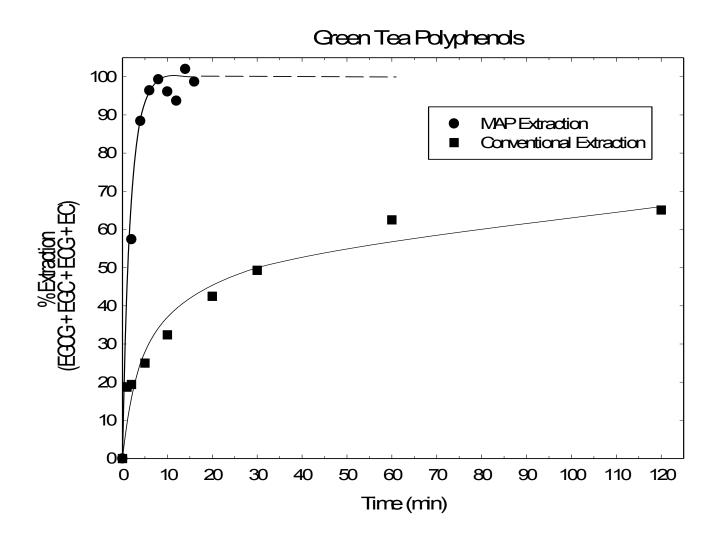
significantly reduces overall product cost

Proven, Patented Technology across a Large Product Pipeline

- Over 40 cases of successful extraction in every commercially relevant class of natural product.
- Holder of three process patents in the extraction of natural compounds.

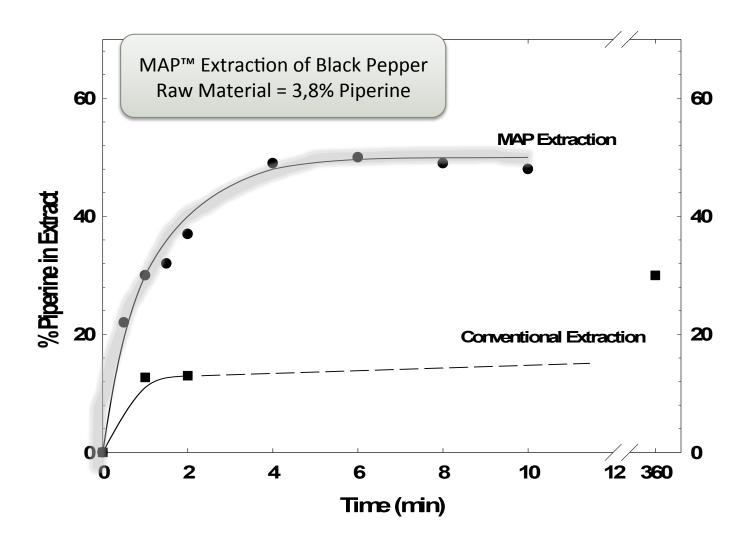






Example: Alkaloids Piperine from Black Pepper



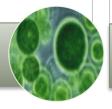


Technology Applications



- Over 40 feasibility studies completed for every commercially-relevant class of natural products
 - Essential Fatty Acids (borage oil)
 - PUFAs
 - Saw palmetto
 - Edible vegetables oils (flax, canola, soybean)

Lipids



- Flax ► Lignans (SDG)
- Sennosides
- Rosavins
- · Terpene acid glycosides

Glycosides



- Cyclopamine
- Black pepper ► Piperine
- Opiates

Alkaloids



- Green tea ➤ Polyphenols
- Rosemary herb ➤ Carnosic acid
- Blueberries ➤ Anthocyanins
- Seaweed ► Polyphenols
- Vanilla beans ➤ Vanillin

Phenolics



- Microalgae ► Carotenoid
- Taxus ➤ Paclitaxel
- Paprika ➤ Carotenoid
- Marigold ► Carotenoid
- Hemp ➤ Cannabinoids

Terpenes



Rice protein ► Residual oil

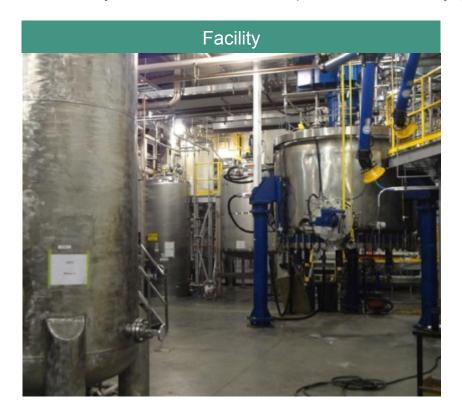




Edmonton Production Plant



- Commissioned in 2014
- 5 metric ton per day throughput, 20,000 square feet, GMP compliant, NHPD licensed
- Many commercial runs completed successfully (Contract Manufacturing and Proprietary Products)





Revenue Model





 Based on production advantages provided by MAPTM Radient creates extracts that in terms of cost, purity or both, displace incumbent ingredients.



 From its Edmonton MAPTM plant, Radient engages in a contract manufacturing agreement with a natural products supplier.



- Where production volume exceeds capacity in Radient's Edmonton plant, a technology transfer agreement is provided, or a joint venture plant is constructed.
- Radient generates revenue from the design and provision of MAP[™]
 equipment, and a technology royalty. In a joint venture, Radient would also
 share in net cashflows.

Sample Economics

MAP™ vs Conventional Extraction

Basis:

Biomass processed (kg): 30,000 Biomass Cost (\$/kg): \$3.75 Active Conc. In Biomass (%): 4% Final Product Purity (%) 50% Final Product Pricing (\$/kg): \$330

MAP vs Conventional:			
	Conventional	MAP	Impact of MAP
Solvent req't (L/k	(g): 9.5	5	~ 50% reduction in solvent req'd
% Recovery of Acti	ve:		
Extracti	on: 75%	85%	Improved extraction recovery
Purificati	on: 81%	81%	
Tot	tal: 61%	69%	
Plant Days Red	q'd: 30	16	~50% reduction in plant time req'd
Revenue:			
Final Product Yield (k	(g): 1454	1647	Due to improved overall recovery
REVEN	JE: \$479,655	\$543,609	
COGS			
Bioma	ss: \$112,500	\$112,500	
Facility / Labour Cos	sts: \$120,000	\$64,000	Due to reduced plant time req'd
Materials / Dispos	sal: \$71,250	\$37,500	Due to reduced solvent req'ts
COC	SS: \$303,750	\$214,000	30% reduction in COGS
Gross Marg	in: \$175,905	\$329,609	_
% Gross Marg	in: 37%	61%	24% Margin increase

A World of Opportunities



Higher purity of extracts

Can double or triple purity of the market reference without involving any purification step.
 Means lower manufacturing cost, higher margins

Higher recovery of actives

 MAPTM pressure driven extraction process = less remains in the plant and more is recovered in the extract. No need for multiple extraction steps increases costs

Higher yield

Higher purity and recovery = Higher overall yield or output = Sustainability

Myriad of possibilities

 Different extraction conditions (parameters on MAPTM extractor) can change the flavour profile of a beverage to meet specific customers' taste

A richer color and a bolder taste

 MAPTM extracts a broader spectrum of molecules vs conventional extraction. Lots of possibilities for perfumers, food technologists and other industries

Removing undesired compounds, keeping the best

Get rid of less desired compounds to retain everything else in the spent biomass

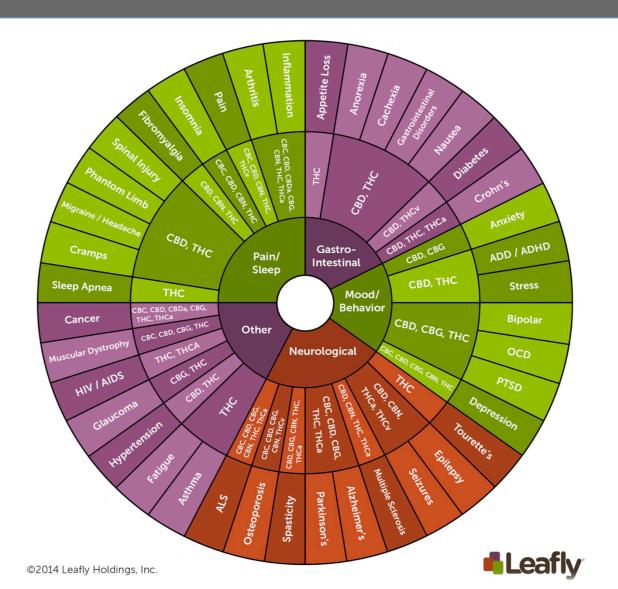
The Cannabinoids Opportunity



- To date, 27 U.S. States and Washington, D.C. have legalized Medical Marijuana, and similar laws have been passed in Canada.
- According to the Marijuana Business Daily's Marijuana Business Factbook 2015, sales of legal medical marijuana grew from \$1.6 billion in 2013 to \$2.7 billion in 2014. They believe that with the additional states to legalize medical marijuana in 2016, the size of the market should grow to over \$10 billion by 2018.
- The diverse pharmacology of cannabinoids provides significant potential for therapeutics across many indications and disease areas that form the core of specialty pharmaceutical drugs.
- The Cannabinoids industry requires various standardized extracts at high purity level and derived from specific strains that can be smoked, vaporized, ingested, or topically applied. This is where Radient comes into play.

Cannabinoids and their Health Benefits RADIENT





Applications for Cannabinoids



- The cannabinoid industry for medical and recreation purposes is rapidly increasing thanks to a favorable change in regulation in North America.
- Cannabinoids represent the main molecules of interest for their proven health benefits. They are found in both marijuana and hemp.
- Current research has revealed over 100 different cannabinoids so far, but THC is the most well known. THC is credited with causing the marijuana high. Regulators typically limit the concentration of THC in cannabis
- The therapeutic benefits of cannabis extracts are also linked to various other non-psychoactive cannabinoids, including cannabidiol (CBD)
- According to the Hemp Industry Association, about \$500 million worth of hemp product is imported every year in the USA.

Current Industry Issues with Extraction



- Relatively low yields from extraction leaving valuable cannabinoids in the raw material
- Lack of validated, high-throughput, commercial-scale extraction technologies
- Many are using artisan methods, not scalable
- Supercritical CO2 is expensive, batch extraction and yield is not optimized
- Main drivers for success are efficient, low costs, high purity, standardized extracts

Radient's Approach to the Cannabinoids

- Radient is focused on developing highly concentrated and standardized Cannabinoids extracts including Marijuana and Hemp-based extracts to serve the Cannabinoids Medical market.
- Potential to offer a range of cannabis extracts containing varying profiles of the different cannabinoids – something that is possible with MAP™ by simply varying microwave conditions during processing.
- Radient is very active in developing partnerships with North American suppliers of hemp and marijuana biomass to develop cannabinoids-rich extracts meeting the legal maximum THC levels.
- Having a lead over competitors with an existing GMP approved and easily scalable industrial facility from NNHPD (Health Canada) which is expected to be the regulatory body that will administer the Marijuana program.
- Poised to be a partner of choice to the cannabinoids industry active in the Marijuana-Infused Products, Marijuana Concentrate products and brands.

Radient's Competitive Advantages



- Radient has world-class expertise in extracting more actives from plants and significantly increase the yields and purity at lower costs compared with competitive extraction technologies.
- Because of the favorable regulation in Canada and its unique positioning,
 Radient has requested proper accreditation and permits from the Canadian
 Government for conducting research and the eventual commercial
 production of standardized cannabinoids extracts.
- Radient is partnering with researchers, growers and companies having complementary skills to advance its leadership and establish itself as a North America leader in the development of standardized cannabinoid extracts from both marijuana and hemp.

Experienced Management Team



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Denis Taschuk, CA, President, CEO & Director

+25 years of experience including public company management/strategy, new market development, manufacturing, finance and tax

Previously CEO of JAG Flocomponents LP and CFO of Cytovax Biotechnologies Inc.

Prakash Hariharan, MBA, Chief Financial Officer

Formerly one of Canada's leading portfolio managers when at Front Street Capital. Worked at Dominion Bond Rating Services. Holds a Financial Engineering degree, an MBA and a degree in Chemical Engineering.

Mike Cabigon, Chief Operating Officer

10+ years P&L management experience in venture and private-equity backed businesses, with up to \$300MM in revenue responsibility and over 1,100 employees.

Steven Splinter, PhD, Chief Technology Officer

Radient Founder with +19 years experience with microwave-assisted chemistry. Expert in interfacial chemical phenomena – Ph.D. in Engineering Science in 1994

Stéphane Gagné, MBA, VP Sales & Marketing

+20 years of experience in the fields of cosmetics, nutritional supplements, pharmaceutical products and active ingredients, previously with Atrium Biotechnologies, Aeterna-Zentaris. Holds 2 Bachelors and one Master Degrees

Capital Markets Profile



Radient Technologies Inc (RTI) - TSX Venture Exchange			
Share Price (November 25, 2016)	0.15		
Shares Outstanding	80.4 MM		
Market Capitalization	\$12.1		
Public Since	June, 2014		
Founded	2001		

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