

MARKET POTENTIAL FOR SUPERCritical CO2 EXTRACTION

Prepared by:

CPL Business Consultants

Milton Park Innovation Centre, Abingdon, OX14 4RY, United Kingdom
Tel: +44 1865 257 252, info@cplconsult.com, www.cplconsult.com

STRATEGIES TO GROW YOUR BUSINESS

TABLE OF CONTENTS

MARKET POTENTIAL FOR SUPERCRITICAL CO2 EXTRACTION	1
OBJECTIVE	1
METHOD	1
TABLE OF CONTENTS	1
<i>Objective and Background</i>	1
<i>Method</i>	1
<i>Principal Findings</i>	1
<i>Contacts</i>	1
<i>Conclusions</i>	1
<i>Recommendations</i>	2
<i>Introduction</i>	2
<i>Markets by Extract Type</i>	2
<i>Markets by End Use</i>	2
<i>Extracts Markets by Region</i>	2
<i>Extracts Companies by Region</i>	2
<i>End Use Markets by Region</i>	2
<i>End User Companies by Region</i>	2
<i>Players and Products</i>	3
<i>Contacts</i>	3
<i>Tables</i>	3
<i>Figures</i>	4
ADDITIONAL PROJECTS	4

In this case study, CPL Business Consultants assessed the markets where supercritical CO₂ (scCO₂) extraction technologies would have an advantage over other technologies and where there was potential for growth. Additionally, CPL reviewed the current providers of scCO₂ extraction services and their offerings to the market.

OBJECTIVE

The objective of this study was to assist a company in gaining a greater understanding of the supercritical CO₂ extraction market.

METHOD

Information was obtained from over 250 published reports and over 100 sources. These data were reviewed and summarised for 85 companies which included full profiles for 37 scCO₂ manufacturers (17 in Europe, 12 in North America and 8 in Asia Pacific). Additionally, some further information was obtained from key contacts at these companies.

TABLE OF CONTENTS

Objective and Background

Method

Principal Findings

- Markets
- Markets by Region
 - US
 - EU
 - Asia
- Players & Products
 - Regional Focus
 - Service Provision
 - Special Features and Technologies

Contacts

Conclusions

- Markets
- Players & Products

Recommendations

Introduction

- Supercritical Processes
- Applications
 - Food, Pharmaceutical and Cosmetics Applications
 - Food
 - Cosmetics
 - Pharmaceuticals

Markets by Extract Type

Markets by End Use

Extracts Markets by Region

- North America
- Europe
- Asia

Extracts Companies by Region

- North America
- Europe
- Asia

End Use Markets by Region

- North America
- Europe
- Asia

End User Companies by Region

- North America
- Europe
- Asia

Players and Products

- Summary Tables for Company Activities by Region
- ScCO2 Separation Services Providers
- Equipment Providers
- Equipment, Service Providers and Toll Processors
- Toll Processors
- Examples of End-users

Contacts

- Summary of Contacts
 - Markets
 - Regions
 - Systems
 - Service Provision
 - Research and Development
 - Partnership Potential
- Contact Reports
 - 25 Contacts
- Appendix
 - Example scCO2 Extract Product Portfolios

Tables

- Supercritical Processes
- Major microalgae commercialized for human nutrition
- Estimated Market for Carotenoids
- Concentrations of astaxanthin in various natural sources
- Supercritical Fluid Extraction of High Value Botanical Extracts
- The Most Utilized Essential Oils
- Spot Prices for Citrus Oils
- Spot Prices for Mint Extracts and Menthol
- Spot Prices for Ginger
- Spot Prices for Spice Extracts
- Market (Consumption) for Flavours and Fragrances by Region
- World Colour Market
- Major Plant Extracts
- Market (Consumption) for Flavours and Fragrances by Region
- Top 40 Herbal Dietary Supplements in US Mass Market Channels
- Top 40 Herbal Supplements in US Natural Channel
- Market (Consumption) for Flavours and Fragrances by Region
- Market (Consumption) for Flavours and Fragrances by Region
- Leading US Players in Flavours and Fragrances
- Major US Colour Players
- Leading European Players in Flavours and Fragrances
- Leading Asian Players in Flavours and Fragrances
- Extraction Specialists by Application
- Companies and their Services Operating in Europe

- Companies and their Services Operating in North America
- Companies and their Services Operating in Asia Pacific
- Positioning, Applications and Processes Offered (Europe)
- Positioning, Applications and Processes Offered (North America)
- Positioning, Applications and Processes Offered (Asia Pacific)
- R&D Development Activities, USP Offering and Strategies (Europe)
- R&D Development Activities, USP Offering and Strategies (North America) 190
- R&D Development Activities, USP Offerings and Strategies (Asia Pacific)
- Supercritical Fluid Extracted Products Offered
- System Throughput for Hightech Extracts

Figures

- PUFA Market
- Global Fish Oil Production (kt)
- EPA/DHA Market Volume (kt)
- Evolving application sectors for the Krill Market
- Relative Market Sizes for Carotenoids
- Approximate Carotenoid Market Split by Value
- Proportional Sales of Beta-Carotene by End Use (\$m)
- Development of Food Colours by Type
- US Corn Mint Oil Production
- US Oleoresin Market Volume (t)
- Leading Importers of Botanical Extracts
- Leading Suppliers of Botanical Extracts (kt)
- Mobile Extraction Service
- Awards Recently Gained by Vitalis Extraction Technologies
- Quick-acting DurOLok Closure Pressure Vessel
- Market share in the Flavour and Fragrance Industry (Global)
- Products and Applications in scCO2 Extraction

ADDITIONAL PROJECTS

Have a look at our [PowerPoint Introduction](#) and Brochure describing deliverables, differentiators and case studies. [Eight case studies](#) can also be reviewed.