

SUGAR BEET PECTIN

Prepared by:
CPL Business Consultants
Innovation Centre, Milton Park, Abingdon, Oxfordshire, OX14 4RY
Tel: +44 1865 257 057, info@cplconsult.com, www.cplconsult.com

Dr Esther Hunter
Dr Rachel Adams
Mrs Helen-Louise Hallett
Dr S G Lisansky

TABLE OF CONTENTS

OBJECTIVES	1
METHODS	1
PRINCIPAL FINDINGS.....	2
APPLICATIONS, TECHNICAL FUNCTIONS & HEALTH BENEFITS OF SOLUBLE FIBRES.....	2
MARKETS & TRENDS.....	3
MANUFACTURERS AND PRODUCTS	6
REGULATORY ISSUES	8
CONCLUSIONS	9
APPLICATIONS, TECHNICAL FUNCTIONS & HEALTH BENEFITS OF SOLUBLE FIBRES.....	9
MARKETS & TRENDS	10
MANUFACTURERS & PRODUCTS	11
REGULATORY ISSUES	12
RECOMMENDATIONS.....	13
DEFINITION OF SUGAR BEET PECTIN AND SOLUBLE FIBRE	15
CHEMICAL STRUCTURE OF PECTIN	15
SOLUBLE FIBRES - THE POLYSACCHARIDES	16
PECTINS	16
GUAR GUM.....	16
GUM ARABIC	16
FRUCTANS.....	16
RESISTANT STARCH.....	17
LIGNIN	17
KONJAC FLOUR.....	17
APPLICATIONS AND TECHNICAL FUNCTIONS.....	18
APPLICATIONS OF SOLUBLE FIBRES	19
TECHNICAL FUNCTIONS OF SOLUBLE FIBRES	20
HEALTH BENEFITS OF SOLUBLE FIBRES.....	20
HEALTH BENEFITS OF SUGAR BEET PECTIN.....	23
MARKETS AND TRENDS	25
HYDROCOLLOID MARKETS	25
SOLUBLE FIBRE MARKETS & TRENDS	29
<i>Inulin</i>	29
<i>Larex</i>	29
<i>Sugar Beet Pectin</i>	30
SOLUBLE FIBRE PRICES.....	30
A PRICE ELASTICITY MODEL.....	31
<i>Sugar beet pectin</i>	32
FUNCTIONAL FOODS & BEVERAGE MARKETS	35
<i>Beverages containing Soluble Fibre and Supermarket /Customer Surveys</i>	39
MANUFACTURERS AND SOLUBLE FIBRE INGREDIENTS.....	45
OVERVIEW	45

<i>Health benefits imparted by the use of specific soluble fibres.....</i>	<i>56</i>
MANUFACTURERS OF SUGAR BEET PECTIN INGREDIENTS	60
OVERVIEW	60
26 MANUFACTURERS AND AGENTS	62
REGULATORY ISSUES	94
CONTACTS REPORTS –	
13 SOLUBLE FIBRE MANUFACTURERS/DISTRIBUTORS	98
20 BEVERAGE MANUFACTURERS	107
3 OTHER.....	115
APPENDIX I - ABSTRACTS ON SUGAR BEET PECTIN HEALTH BENEFITS	117
APPENDIX II – SPECIFICATIONS OF SOLUBLE PECTINS	137

LIST OF TABLES

TABLE 1.	WORLDWIDE FIBRE RECOMMENDATIONS AND INTAKES	17
TABLE 2.	WORLDWIDE HYDROCOLLOID MARKET (PRICES AND VOLUME)	25
TABLE 3.	WORLD HYDROCOLLOIDS MARKETS (% VALUE)	28
TABLE 4.	WORLD HYDROCOLLOIDS MARKET EXCLUDING STARCH (% VOLUME)	28
TABLE 5.	WORLD HYDROCOLLOID MARKET (VALUE AND % VALUES)	28
TABLE 6.	COST OF SOLUBLE FIBRE PER DRINK	33
TABLE 7.	COST OF SOLUBLE FIBRE PER DOSE	34
TABLE 8.	NEW AGE BEVERAGE MARKET DOLLAR SALES AND VOLUME	37
TABLE 9.	U.S. NUTRIENT-ENHANCED BEVERAGE MARKET	38
TABLE 10.	UK BEVERAGE SURVEY	42
TABLE 11.	MANUFACTURES OF SOLUBLE FIBRE INGREDIENTS	46
TABLE 12.	FIBREGUM USES IN BEVERAGES	68

LIST OF FIGURES

FIGURE 1	CURRENT WORLD HYDROCOLLOIDS MARKETS (% VALUE)	26
FIGURE 2	PROJECTED W ORLD HYDROCOLLOIDS MARKETS (% VALUE)	26
FIGURE 3	HOT CEREAL SALES	37