

| | |
|---|-------|
| INTRODUCTION | XVII |
| OBJECTIVES AND PURPOSE OF THIS REPORT | XVII |
| REASONS FOR THIS STUDY | XVIII |
| CONTRIBUTION OF THE STUDY AND FOR WHOM | XVIII |
| SCOPE AND FORMAT | XIX |
| METHODOLOGY | XX |
| AUTHOR'S CREDENTIALS | XX |
| RELATED BCC PUBLICATIONS | XXI |
| REPORTS | XXI |
| MONTHLY NEWSLETTER | XXI |
| BCC ON-LINE SERVICES..... | XXI |
| SUMMARY..... | XXII |
| <i>SUMMARY TABLE COMPARISON OF U.S. FUNCTIONAL FOODS SALES GROWTH VERSUS TOTAL FOOD SALES GROWTH, THROUGH 2007 (\$ BILLIONS).....</i> | XXIII |
| <i>SUMMARY FIGURE COMPARISON OF U.S. FUNCTIONAL FOODS SALES GROWTH VERSUS TOTAL FOOD SALES GROWTH, 2001-2007 (\$ BILLIONS).....</i> | XXIV |
| INDUSTRY OVERVIEW..... | 1 |
| DEFINITION OF THE TERM "FUNCTIONAL FOODS" FOR THE PURPOSE OF THIS REPORT | 1 |
| THE IMPORTANCE OF THE INDUSTRY | 2 |
| PUBLIC ATTITUDES..... | 2 |
| RESEARCH IMPACTS | 3 |
| BACKING OF LARGE MANUFACTURERS | 3 |
| U.S. MARKET | 4 |
| INTERNATIONAL MARKET..... | 4 |
| MAJOR PRODUCT SEGMENTS..... | 4 |
| FUNCTIONAL BEVERAGES AND TEAS | 5 |
| Chilled Juices..... | 5 |
| New Age Beverages | 5 |
| Sports Drinks..... | 5 |
| Energy Drinks..... | 6 |
| FUNCTIONAL CEREALS, BREADS, AND GRAINS..... | 6 |
| Fortified Cereals | 6 |
| Fortified Breads and Grains | 7 |
| SOYFOODS | 7 |
| Soymilk | 7 |
| Soy-Based Meat Alternatives..... | 7 |
| Soy-Based Energy Bars | 8 |
| Soy-Based Meal Replacement Drinks and Powders | 8 |
| FUNCTIONAL SNACKS | 8 |
| Functional Bars | 8 |
| Functional Candies..... | 9 |

| | |
|--|-----------|
| Oral Healthcare Gums | 9 |
| Functional Snacks | 9 |
| FUNCTIONAL MISCELLANEOUS FOODS | 9 |
| Cholesterol Lowering Spreads | 10 |
| Functional Dressings..... | 10 |
| Functional Yogurts | 10 |
| Functional Processed Foods | 10 |
| REASONS FOR GROWTH OF OVERALL FUNCTIONAL FOOD MARKET..... | 11 |
| INTEREST IN MAINTAINING BETTER HEALTH | 11 |
| INCREASING KNOWLEDGE CONCERNING THE LINK BETWEEN DIET AND HEALTH | 12 |
| Government Consumer Education Programs..... | 12 |
| Product Health Claims | 12 |
| Media..... | 13 |
| Information Influence on Purchasing | 13 |
| INCREASING HEALTHCARE COSTS | 14 |
| CHANGES IN FOOD LAWS AFFECTING LABEL AND PRODUCT CLAIMS | 14 |
| AN AGING GENERAL POPULATION AND AN AGING FEMALE POPULATION..... | 15 |
| CONSUMER ATTITUDES | 16 |
| THE FUTURE OF THE INDUSTRY..... | 16 |
| FUNCTIONAL FOOD RESEARCH AND EDUCATION ACT | 17 |
| REGULATORY CLASSIFICATIONS | 18 |
| LEADING GROWTH PRODUCT PROSPECTS..... | 18 |
| Leading Growth Product Prospects (Continued)..... | 19 |
| FUNCTIONAL FOOD CATEGORIES SALES AND GROWTH | 20 |
| OVERALL FUNCTIONAL FOOD MARKET SIZE..... | 20 |
| SIZE AND GROWTH OF OVERALL FUNCTIONAL FOOD MARKET | 20 |
| <i>TABLE 1 U.S. SALES OF FUNCTIONAL FOODS, THROUGH 2007 (\$ MILLIONS)</i> | 20 |
| <i>FIGURE 1 U.S. SALES OF FUNCTIONAL FOODS, 2001-2007 (\$ MILLIONS)</i> | 21 |
| EXAMPLES OF FUNCTIONAL FOODS, INGREDIENTS, AND POTENTIAL BENEFITS | 21 |
| <i>TABLE 2 EXAMPLES OF FUNCTIONAL FOODS, KEY INGREDIENTS AND BENEFITS</i> | 21 |
| <i>TABLE 2 (CONTINUED)</i> | 22 |
| SIZE OF FUNCTIONAL FOODS COMPARED TO OVERALL RETAIL FOOD INDUSTRY | 22 |
| <i>TABLE 3 COMPARISON OF U.S. FUNCTIONAL FOODS SALES GROWTH VERSUS TOTAL FOOD SALES GROWTH, THROUGH 2007 (\$ BILLIONS)</i> | 22 |
| <i>FIGURE 2 COMPARISON OF U.S. FUNCTIONAL FOODS SALES VERSUS TOTAL FOOD SALES, 2001-2007 (\$ BILLIONS)</i> | 23 |
| FUNCTIONAL FOOD MARKET LEADERS..... | 23 |

| | |
|---|-----------|
| SIZE OF FUNCTIONAL FOOD INDUSTRY AROUND THE WORLD | 24 |
| TABLE 4 COMPARISONS OF FUNCTIONAL FOOD SALES IN TOP THREE REGIONS, 2002 (\$ BILLIONS) | 25 |
| FUNCTIONAL BEVERAGES AND TEAS | 26 |
| TABLE 5 U.S. SALES OF FUNCTIONAL BEVERAGES AND TEAS BY TYPE, THROUGH 2007 (\$ MILLIONS) | 26 |
| FIGURE 3 U.S. SALES OF FUNCTIONAL BEVERAGES BY TYPE, 2001-2007 (\$ MILLIONS) | 27 |
| CHILLED JUICES | 27 |
| TABLE 6 U.S. SALES OF FUNCTIONAL CHILLED JUICES BY TYPE, THROUGH 2007 (\$ MILLIONS) | 28 |
| FIGURE 4 U.S. SALES OF FUNCTIONAL CHILLED JUICES BY TYPE, 2001-2007 (\$ MILLIONS) | 28 |
| Market Share | 28 |
| TABLE 7 RANKING OF TOP-SELLING CHILLED JUICE MANUFACTURERS (BY AMOUNT OF FUNCTIONAL CHILLED JUICES SOLD) | 29 |
| SPORTS DRINKS | 29 |
| TABLE 8 U.S. SALES OF SPORTS DRINKS, THROUGH 2007 (\$ MILLIONS) | 30 |
| Market Share | 30 |
| TABLE 9 MARKET SHARES OF U.S. SPORTS DRINK MANUFACTURERS, 2002 (%) | 30 |
| NEW AGE BEVERAGES AND TEAS | 31 |
| TABLE 10 U.S. SALES OF NEW AGE BEVERAGES AND TEAS BY TYPE, THROUGH 2007 (\$ MILLIONS) | 31 |
| FIGURE 5 U.S. SALES OF NEW AGE BEVERAGES BY TYPE, 2001-2007 (\$ MILLIONS) | 32 |
| Market Share | 33 |
| TABLE 11 MARKET SHARE OF LEADING NEW AGE BEVERAGE MANUFACTURERS, 2002 (%) | 33 |
| ENERGY DRINKS | 33 |
| TABLE 12 U.S. SALES OF ENERGY DRINKS, THROUGH 2007 (\$ MILLIONS) | 34 |
| FORTIFIED CEREALS, BREADS, AND GRAINS | 34 |
| TABLE 13 U.S. SALES OF FUNCTIONAL CEREALS, BREADS, AND GRAINS, THROUGH 2007 (\$ MILLIONS) | 35 |
| FIGURE 6 U.S. SALES OF FUNCTIONAL CEREALS, BREADS, AND GRAINS, 2001-2007 (\$ MILLIONS) | 35 |
| READY-TO-EAT CEREALS | 35 |
| Market Share | 36 |
| TABLE 14 READY-TO-EAT CEREALS POISED FOR SUCCESS | 37 |
| TABLE 15 SALES OF LEADING U.S. CEREAL MANUFACTURERS, 2002 (\$ BILLIONS) | 37 |
| TABLE 16 BREAKDOWN OF U.S. CEREAL MARKET BY CATEGORY, 2002 (\$ MILLIONS) | 38 |
| FUNCTIONAL BREADS AND GRAINS | 39 |
| SOYFOODS | 39 |
| TABLE 17 U.S. SALES OF SOYFOODS BY TYPE, THROUGH 2007 (\$ MILLIONS) | 40 |
| FIGURE 7 U.S. SALES OF SOYFOODS BY TYPE, 2001-2007 (\$ MILLIONS) | 40 |
| TABLE 18 GROWTH OF SOY FOODS IN RETAIL OUTLETS, 2001-2002 (%) | 41 |
| SOY-RELATED HEALTH CLAIMS | 41 |

| | |
|---|----|
| LARGE MANUFACTURERS ENTERING THE SOYFOODS | |
| FRAY | 42 |
| SOYMILK | 43 |
| TABLE 19 U.S. SALES OF SOYMILK, THROUGH 2007 (\$ MILLIONS) | 43 |
| FIGURE 8 U.S. SALES OF SOYMILK, 2001-2007 (\$ MILLIONS)..... | 44 |
| Market Drivers | 44 |
| Market Share | 45 |
| TABLE 20 U.S. SOYMILK SALES LEADERS, 2002 (%). | 45 |
| SOY-BASED MEAT ALTERNATIVES | 46 |
| TABLE 21 U.S. SALES OF SOY-BASED MEAT ALTERNATIVES, THROUGH 2007 (\$ MILLIONS) | 46 |
| FIGURE 9 U.S. SALES OF SOY-BASED MEAT ALTERNATIVES, 2001-2007 (\$ MILLIONS) | 47 |
| Market Drivers | 47 |
| Product Development | 48 |
| Market Share | 48 |
| TABLE 22 U.S. LEADERS IN SOY-BASED MEAT ALTERNATIVES CATEGORY, 2002 (%)..... | 48 |
| SOY-BASED ENERGY BARS | 49 |
| TABLE 23 U.S. SALES OF SOY-BASED NUTRITIONAL BARS, THROUGH 2007 (\$ MILLION)..... | 49 |
| FIGURE 10 U.S. SALES OF SOY-BASED NUTRITIONAL BARS, 2001-2007 (\$ MILLIONS) | 49 |
| Market Drivers | 50 |
| Market Share | 50 |
| TABLE 24 LEADING SOY-BASED BAR MANUFACTURERS AND MARKET SHARE, 2002 (%)..... | 51 |
| SOY-BASED MEAL REPLACEMENT DRINKS AND POWDERS | 51 |
| TABLE 25 U.S. SALES OF SOY-BASED MEAL REPLACEMENT BEVERAGES AND POWDERS, THROUGH 2007 (\$ MILLIONS) | 52 |
| FIGURE 11 U.S. SALES OF SOY-BASED MEAL REPLACEMENT BEVERAGES AND POWDERS, 2001-2007 (\$ MILLIONS)..... | 52 |
| FUNCTIONAL SNACKS AND CANDIES | 53 |
| TABLE 26 U.S. SALES OF FUNCTIONAL SNACKS AND CANDIES BY TYPE, THROUGH 2007 (\$ MILLIONS) | 53 |
| FIGURE 12 U.S. SALES OF FUNCTIONAL SNACKS AND CANDIES BY TYPE, 2001-2007 (\$ MILLIONS)..... | 54 |
| NUTRITIONAL SNACK AND MEAL REPLACEMENT BARS | 54 |
| TABLE 27 U.S. SALES OF FUNCTIONAL BARS BY TYPE, THROUGH 2007 (\$ MILLIONS) | 55 |
| FIGURE 13 U.S. SALES OF FUNCTIONAL BARS, 2001-2007 (\$ MILLIONS) | 56 |
| General Versus Nutritional Bar Market | 56 |
| TABLE 28 COMPARISONS OF U.S. GENERAL SNACK BAR SALES TO FUNCTIONAL BARS, THROUGH 2007 (\$ MILLION)..... | 56 |
| FIGURE 14 COMPARISONS OF GENERAL SNACK BAR SALES TO FUNCTIONAL BARS, THROUGH 2007 (\$ MILLION)..... | 57 |
| General Bar Market Share..... | 57 |
| TABLE 29 U.S. SALES OF TOP FIVE GENERAL BAR SALES MARKET LEADERS, 2002 (\$ MILLIONS) | 58 |

| | |
|---|----|
| Functional Bar Market Share | 58 |
| <i>TABLE 30 TOP FIVE U.S. MANUFACTURERS OF FUNCTIONAL BARS, 2002 (\$ MILLIONS)</i> | 59 |
| Reasons for Mediocre Growth of Nutritional Bars..... | 59 |
| FUNCTIONAL CANDY | 59 |
| <i>TABLE 31 U.S. FUNCTIONAL CANDY SALES COMPARED TO ALL CANDY SALES, THROUGH 2007 (\$ BILLIONS)</i> | 60 |
| <i>FIGURE 15 U.S. SALES OF FUNCTIONAL CANDY COMPARED TO ALL CANDY SALES, 2002 AND 2007 (\$ BILLIONS)</i> | 60 |
| <i>TABLE 32 U.S. SALES OF FUNCTIONAL CANDY BY TYPE, THROUGH 2007 (\$ MILLIONS)</i> | 61 |
| <i>FIGURE 16 U.S. SALES OF FUNCTIONAL CANDIES BY TYPE, 2001-2007 (\$ MILLIONS).....</i> | 61 |
| Market Drivers | 62 |
| ORAL HEALTHCARE GUMS | 62 |
| <i>TABLE 33 U.S. SALES OF ORAL HEALTH CARE GUMS, THROUGH 2007 (\$ MILLIONS)</i> | 62 |
| Market Drivers | 63 |
| FUNCTIONAL SNACKS | 63 |
| <i>TABLE 34 U.S. FUNCTIONAL SNACK SALES BY TYPE, THROUGH 2007 (\$ MILLIONS)</i> | 63 |
| <i>FIGURE 17 U.S. SALES OF FUNCTIONAL SNACKS BY TYPE, 2001-2007 (\$ MILLIONS)</i> | 64 |
| Market Drivers | 64 |
| <i>TABLE 35 FUNCTIONAL SNACK SALES COMPARED TO GENERAL SNACK SALES, THROUGH 2007 (\$ BILLIONS).....</i> | 65 |
| Market Leaders | 65 |
| MISCELLANEOUS FUNCTIONAL FOODS | 66 |
| <i>TABLE 36 U.S. SALES OF MISCELLANEOUS FUNCTIONAL FOODS BY TYPE, THROUGH 2007 (\$ MILLIONS)</i> | 66 |
| <i>FIGURE 18 U.S. SALES OF FUNCTIONAL MISCELLANEOUS FOODS BY TYPE, 2001-2007 (\$ MILLIONS)</i> | 67 |
| CHOLESTEROL-LOWERING SPREADS | 67 |
| <i>TABLE 37 U.S. SALES OF CHOLESTEROL-LOWERING SPREADS, THROUGH 2007 (\$ MILLIONS)</i> | 68 |
| Reasons for Poor Growth..... | 68 |
| FUNCTIONAL DRESSINGS..... | 68 |
| <i>TABLE 38 U.S. SALES OF TRADITIONAL DRESSINGS COMPARED TO FUNCTIONAL DRESSINGS, THROUGH 2007 (\$ BILLIONS).....</i> | 69 |
| Little Growth Expected | 69 |
| FUNCTIONAL YOGURT | 70 |
| <i>TABLE 39 U.S. SALES OF FUNCTIONAL YOGURT PRODUCTS, THROUGH 2007 (\$ MILLIONS)</i> | 70 |
| Market Drivers | 70 |
| Market Drivers (Continued) | 71 |
| Market Share | 72 |
| FUNCTIONAL PROCESSED FOOD | 72 |
| <i>TABLE 40 U.S. SALES OF FUNCTIONAL PROCESSED FOOD BY TYPE, THROUGH 2007 (\$ MILLIONS)</i> | 73 |

| | |
|--|----|
| Market Drivers | 73 |
| FUNCTIONAL FOOD BY INGREDIENT..... | 74 |
| VITAMINS AND MINERALS | 74 |
| CALCIUM..... | 74 |
| PERCENT OF FUNCTIONAL FOODS CONTAINING CALCIUM AS A FUNCTIONAL INGREDIENT | 75 |
| <i>TABLE 41 PERCENT OF FUNCTIONAL FOODS CONTAINING CALCIUM BY CATEGORY, 2003.....</i> | 75 |
| ADDITIONAL VITAMINS AND MINERALS | 75 |
| Percent of Functional Foods Fortified with Vitamins and Minerals..... | 76 |
| <i>TABLE 42 PERCENT OF FUNCTIONAL FOODS CONTAINING ADDED VITAMINS BY CATEGORY.....</i> | 77 |
| FIBER..... | 77 |
| PERCENT OF FUNCTIONAL FOODS FORTIFIED WITH FIBER..... | 78 |
| <i>TABLE 43 PERCENT OF FUNCTIONAL FOODS CONTAINING FIBER BY CATEGORY</i> | 78 |
| SOY..... | 78 |
| PERCENTAGE OF FUNCTIONAL FOOD CONTAINING SOY AS THE FUNCTIONAL INGREDIENT | 79 |
| <i>TABLE 44 PERCENT OF FUNCTIONAL FOODS CONTAINING SOY BY CATEGORY</i> | 79 |
| HERBS | 79 |
| PERCENTAGE OF FUNCTIONAL FOODS THAT CONTAIN HERBS AS THE FUNCTIONAL INGREDIENT | 80 |
| <i>TABLE 45 PERCENT OF FUNCTIONAL FOODS CONTAINING HERBS BY CATEGORY</i> | 81 |
| OTHER FUNCTIONAL INGREDIENTS OF NOTE..... | 81 |
| PROBIOTICS | 81 |
| OMEGA-3 POLYUNSATURATED FATTY ACIDS..... | 81 |
| PLANT STEROLS..... | 82 |
| LYCOPENE | 82 |
| FUNCTIONAL INGREDIENTS OF THE FUTURE..... | 82 |
| <i>TABLE 46 FUNCTIONAL INGREDIENTS OF THE FUTURE</i> | 82 |
| <i>TABLE 46 (CONTINUED).....</i> | 83 |
| FUNCTIONAL FOODS RESEARCH | 84 |
| BIOTECHNOLOGY AND FUNCTIONAL FOODS | 84 |
| BIOTECHNOLOGY AND FERTILIZATION METHODS TO PRODUCE HIGHER LYCOPENE YIELDS..... | 84 |
| BIOTECHNOLOGY AND SOYBEANS | 85 |
| BIOTECHNOLOGY CREATES SUPER BROCCOLI | 86 |
| USING BIOTECHNOLOGY TO CREATING FUNCTIONAL INGREDIENTS FROM SCRAP CROPS..... | 86 |
| FUNCTIONAL INGREDIENT RESEARCH | 87 |
| FISH OILS..... | 87 |

| | |
|---|-----|
| FLAXSEED..... | 88 |
| LYCOPENE | 88 |
| FIBER | 89 |
| CALCIUM..... | 90 |
| SOY | 91 |
| PRODUCT RESEARCH AND DEVELOPMENT..... | 91 |
| LYCOPENE PRODUCTS | 91 |
| PRODUCTS THAT HELP THE HEART | 92 |
| MILK..... | 92 |
| Functional Food Opportunities | 93 |
| Functional Food Opportunities (Continued)..... | 94 |
| FEDERAL REGULATION OF THE FUNCTIONAL FOOD INDUSTRY | 95 |
| REGULATION OF FUNCTIONAL FOODS..... | 95 |
| CLAIMS THAT CAN BE MADE FOR CONVENTIONAL FOODS AND DIETARY SUPPLEMENTS..... | 95 |
| Health Claims | 95 |
| NLEA Authorized Health Claims | 96 |
| Health Claims Based On Authoritative Statements..... | 96 |
| Qualified Health Claims | 96 |
| Structure/Function Claims..... | 96 |
| Nutrient Content Claims | 97 |
| PERMISSIBLE HEALTH CLAIMS | 97 |
| FDA-Approved Health Claims | 98 |
| Plant Sterol and Plant Stanol Esters and Reduced Risk of Coronary Heart Disease..... | 98 |
| Food Requirements | 98 |
| Claim Requirements | 98 |
| Model Claim Statements | 99 |
| Soy Protein and Reduced Risk of Coronary Heart Disease | 99 |
| Food Requirements | 99 |
| Claim Requirements | 99 |
| Model Claim Statements | 99 |
| Calcium and Reduced Risk of Osteoporosis..... | 99 |
| Food Requirements | 99 |
| Claim Requirements | 100 |
| Model Claim Requirements..... | 100 |
| Fiber-Containing Grain Products, Fruits, and Vegetables and the Reduced Risk of Cancer | 100 |
| Food Requirements | 100 |
| Claim Requirements | 100 |
| Model Claim Requirements..... | 100 |

| | |
|--|-----|
| Fruits, Vegetables, and Grain Products that Contain Fiber and the Reduced Risk of Coronary Heart Disease | 101 |
| Food Requirements | 101 |
| Claim Requirements | 101 |
| Model Claim Requirements..... | 101 |
| Folate and the Reduced Risk of Neural Tube Birth Defects..... | 101 |
| Food Requirements | 101 |
| Claim Requirements | 101 |
| Model Claim Requirements..... | 102 |
| Dietary Soluble Fiber and the Reduced Risk of Coronary Heart Disease | 102 |
| Food Requirements | 102 |
| Claim Requirements | 102 |
| Model Claim Requirements..... | 102 |
| Health Claims Authorized Based on Authoritative Statements by Federal Scientific Bodies..... | 103 |
| Whole Grain Foods and Risk of Heart Disease and Certain Cancers | 103 |
| Claim Requirements | 103 |
| Potassium and the Risk of High Blood Pressure and Stroke | 103 |
| Claim Requirements | 103 |
| Model Statements | 103 |
| OBTAINING A HEALTH CLAIM | 103 |
| HEALTH CLAIM PITFALLS | 104 |
| Be Wary of Herbal Ingredient Health Claims..... | 104 |
| Health Claims and the Internet..... | 104 |
| HOW TO LABEL AND MARKET FUNCTIONAL FOODS? | 105 |
| The Functional Food Research and Education Act | 105 |
| Classifying Functional Foods for Regulatory Purposes | 106 |
| Functional Food Classified As Drugs..... | 106 |
| Functional Foods Classified As Medical Foods | 106 |
| Functional Foods Classified As Foods with Novel Food Ingredients..... | 106 |
| Functional Foods Classified As Dietary Supplements | 107 |
| FUNCTIONAL FOOD OPPORTUNITIES | 108 |
| CURRENT FUNCTIONAL FOOD OPPORTUNITIES..... | 108 |
| FORTIFIED FOODS | 108 |
| <i>TABLE 47 SALES AND GROWTH FOR FORTIFIED FUNCTIONAL FOODS BY TYPE, THROUGH 2007 (\$ MILLIONS)</i> | 109 |

| | |
|---|------------|
| <i>FIGURE 19 SALES FOR FORTIFIED FUNCTIONAL FOODS BY TYPE, 2001-2007 (\$ MILLIONS)</i> | 109 |
| FUNCTIONAL FOODS DIRECTED AT CHILDREN..... | 110 |
| <i>TABLE 48 SALES AND GROWTH OF FUNCTIONAL FOODS DIRECTED AT CHILDREN, THROUGH 2007 (\$ MILLIONS).....</i> | 111 |
| <i>FIGURE 20 SALES AND GROWTH OF FUNCTIONAL FOODS DIRECTED AT CHILDREN, 2001-2007 (\$ MILLIONS)</i> | 112 |
| TRADITIONALLY UNHEALTHY FOODS WITH A FUNCTIONAL TWIST | 113 |
| <i>TABLE 49 SALES AND GROWTH OF TRADITIONALLY UNHEALTHY FOODS WITH FUNCTIONAL TWIST, THROUGH 2007 (\$ MILLIONS)</i> | 113 |
| <i>FIGURE 21 SALES OF TRADITIONALLY UNHEALTHY FOODS WITH FUNCTIONAL TWIST, 2001-2007 (\$ MILLIONS)</i> | 113 |
| FUNCTIONAL FOODS TAILED TO IMPROVE THE QUALITY OF LIFE | 114 |
| <i>TABLE 50 SALES AND GROWTH OF FUNCTIONAL FOODS TO IMPROVE THE QUALITY OF LIFE, THROUGH 2007 (\$ MILLIONS)</i> | 114 |
| <i>FIGURE 22 SALES OF FUNCTIONAL FOODS TO IMPROVE THE QUALITY OF LIFE, 2001-2007 (\$ MILLIONS)</i> | 115 |
| SOYFOODS | 115 |
| <i>TABLE 51 U.S. SALES AND GROWTH OF SOYFOODS BY TYPE, THROUGH 2007 (\$ MILLIONS)</i> | 116 |
| <i>FIGURE 23 U.S. SALES AND GROWTH OF SOYFOODS BY TYPE, 2001-2007 (\$ MILLIONS)</i> | 117 |
| FUNCTIONAL FOOD OPPORTUNITIES OF THE FUTURE | 118 |
| TREATMENT FUNCTIONAL FOODS..... | 118 |
| ORGANIC/FUNCTIONAL FOODS..... | 118 |
| CONDITION-ORIENTED FUNCTIONAL FOODS | 118 |
| Condition-Oriented Functional Foods (Continued)..... | 119 |
| MARKETING FUNCTIONAL FOODS | 120 |
| A LOOK AT U.S. DEMOGRAPHICS | 120 |
| <i>TABLE 52 HEALTH ISSUES AFFECTING EACH DEMOGRAPHIC GROUP (PERCENT OF SHOPPERS Affected).....</i> | 121 |
| HEALTH-RELATED CONSUMER OPINIONS..... | 121 |
| METHODS OF REACHING THE TARGET AUDIENCE | 122 |
| <i>TABLE 53 HEALTH AND NUTRITION INFORMATION SOURCES USED BY CONSUMERS (PERCENTAGE OF RESPONDENTS).....</i> | 123 |
| AVOIDING PRODUCT FAILURES..... | 123 |
| PRODUCT FLOPS | 123 |
| WINNING STRATEGIES | 124 |
| Include the Healthcare Community and Media in the Plan..... | 124 |
| Team Up With A Winner..... | 124 |
| Team Up With A Winner (Continued) | 125 |
| COMPANY PROFILES | 126 |
| CLIF BAR INC..... | 126 |

| | |
|--|-----|
| COCA-COLA CO..... | 127 |
| MINUTE MAID | 127 |
| POWERADE..... | 128 |
| DEAN FOODS COMPANY | 128 |
| WHITE WAVE..... | 128 |
| GARDENBURGER AUTHENTIC FOODS COMPANY | 129 |
| GENERAL MILLS | 129 |
| HAIN CELESTIAL GROUP..... | 130 |
| YVES VEGGIE CUISINE..... | 130 |
| HAIN PURE FOODS | 130 |
| ARROWHEAD MILLS..... | 131 |
| TERRA CHIPS | 131 |
| EARTH'S BEST..... | 131 |
| WESTSOY | 131 |
| THE KELLOGG CO..... | 132 |
| KELLOGG | 132 |
| KASHI..... | 133 |
| WORTHINGTON FOODS | 133 |
| KRAFT FOODS..... | 133 |
| POST CEREALS | 134 |
| BALANCE BAR..... | 134 |
| BOCA BURGER, INC. | 134 |
| MCNEIL NUTRITIONALS | 135 |
| NESTLE USA..... | 135 |
| POWERBAR | 136 |
| PEPSICO | 136 |
| SOBE | 137 |
| TROPICANA | 137 |
| GATORADE..... | 137 |
| QUAKER FOODS NORTH AMERICA | 138 |
| STONYFIELD FARM | 138 |
| UNILEVER | 139 |
| UNILEVER'S TAKE CONTROL..... | 139 |
| SLIMFAST FOODS CO. | 139 |