工業局94年度農業生技產業化策略推動計畫

Nutraceutical Industry Analysis



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Obesity

- An estimated 130 million Americans-64% of us- are overweight or obese
- 59 million- a full 30%- of adults are obese
- Obesity is driving serious health risks, including heart disease and diabetes
- According to a RAND Corporation Study, healthcare costs related to obesity could reach 20% by 2020

USDA suggest Federal Nutrition Panel

2200 calorie diet	2000	2004
Fruits (servings per day)	3	4
Vegetables (servings per day)	4	6
Grains (servings per day)	9	7
Meat and Beans (ounces per day)	6	6
Milk (servings per day)	2	3
Oil (grams per day)	NA	27
Discretionary daily calories	NA	235

U.S. Nutrition Industry Growth, 2001 to 2003

				2003	2004-2009
Products	2001	2002	2003	Growth	EST CAGR
Vitamins	6,025	6,179	6,648	7.6%	3.2%
Herbs/Botanicals	4,397	4,276	4,197	-1.8%	0.0%
Sports Nutrition	1,729	1,828	1,975	8.0%	6.1%
Minerals	1,392	1,527	1,765	15.6%	4.4%
Meal Supplements	2,305	2,571	2,522	-1.9%	4.3%
Specialty/Other	2,230	2,374	2,715	14.4%	9.5%
Supplements	18,078	18,755	19,821	5.7%	4.2%
Natural & Organic Food	13,158	14,362	16,240	13.1%	9.2%
Functional Foods	18,820	20,480	21,890	6.9%	6.8%
Natural Personal Care	4,113	4,523	4,917	8.7%	8.3%
Nutrition Industry	54,170	58,120	62,868	8.2%	6.7%
Annual Growth	7.4%	7.3%	8.2%		

CAGR= Compound Annual Growth Rate. Forecast is annual average.

U.S. Nutrition Industry Growth, 2001 to 2003

				2003	2004-2009
Sales Channels	2001	2002	2003	Growth	EST CAGR
Retail-Natural & Specialty	17,343	18,673	20,916	12.0%	7.5%
Retail-Mass Market	28,827	31,099	33,102	6.4%	6.9%
Mail Order/DRTV	1,289	1,346	1,432	6.4%	4.9%
Multilevel Network	5,081	5,218	5,407	3.6%	2.7%
Practitioner	1,331	1,419	1,523	7.3%	6.0%
Internet	307	375	495	32.2%	18.0%
Totals	54,179	58,130	62,876	8.2%	6.8%

Source: Nutrition Business Journal and Penton Media Inc.

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Nutrition Industry IPO

Herbalife (HLF, Nasdaq)



Herbalife, Ltd. offers weight management, nutritional supplement, and personal care products in the United States.

最近交易價: 27.94

交易時間: 2005/08/17

漲跌: 0.06 (0.21%)

昨日收盤: 28.00

開盤: 27.97

買入: 無

賣出: 無

一年目標預測: 30.90

最後交易日價格幅度: 27.90 - 28.00

52周價格幅度: 14.00 - 28.55

成交量: 15,700

平均成交量(3個月): 264,932

市値: 19.20億

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本益比(12個月): 169.33

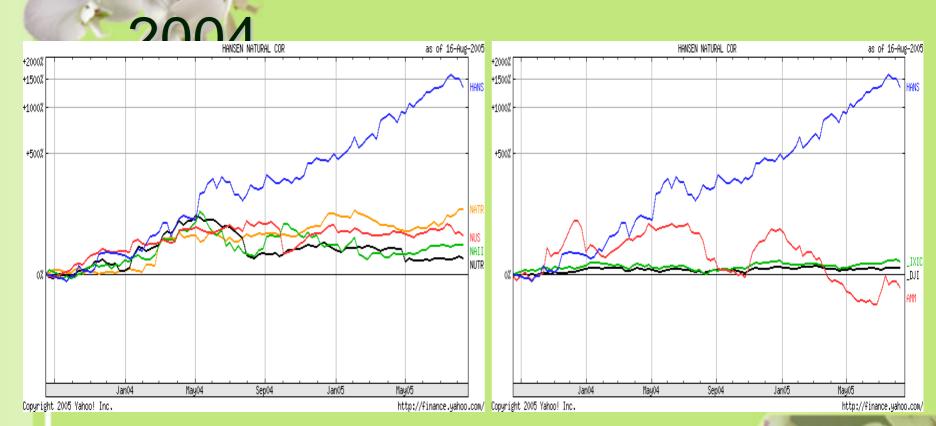
每股收益(12個月): 0.17

股利和股息: 無(無)

http://www.herbalife.com/



Burrill Nutraceuticals Index



HANS: HANSEN NATURAL COR

NATR: NATURE S SUNSHINE

NUS: NU SKIN ENT INC

NAII: NATURAL ALTERNATIV

NUTR: NUTRACEUTICAL INTL

ISIC: Nasdaq

DJI: Dow

AMM: AMC INC CMN STK

M&A and Other Financing Transactions

- German Company Bayer announced the purchase of Roche's consumer health business for \$2.85 billion.
- Abbott Laboratories acquired nutritional food and supplements maker EAS for \$ 320 million.
- Ripplewood Holding and Activated Holdings' purchase of nutritional supplement maker Shaklee from Yamanouchi for \$ 310 million.
- Industrial Bank of Taiwan also join the

Developing Good Science in the field of dietary supplements

Government Department NIH

NIH alone invested over \$770 million in supporting nearly 2,600 research projects related to dietary supplements (1999~2003).

Office of Dietary Supplements (ODS)

The budget for ODS grew from \$ 3.5 to \$26 million. (1999, 2004)



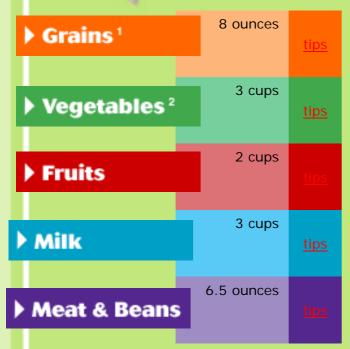
Research Field

- Evidence-based reviews of dietary supplement efficacy and safety
- Development database of dietary supplement ingredients
- Development validation, and analytical method
- Others such as vitamin E, B, lipid, and St. John's Wort.

Government Agencies Revisit Dietary Guidelines

- Calorie, nutritional information, and food labels
- Restaurants and industries are being encouraged to make sure food labels are accurate.
- Americans don't eat enough fruit and vegetables.

USDA Food Pyramid



Based on the information you provided and the average needs for your age, gender and physical activity [Age: 30, Sex: male, Physical Activity: Less than 30 Minutes] your results indicate that you should eat these amounts from the following food groups daily. Your results are based on a 2400 calorie pattern.

http://www.mypyramid.gov/



Special Diet Plans

- Atkins Diet (low-carb craze)
- Low-Carb Corn
- Low-Carb Alternatives

3375 products being launched by food companies in the US in 2004

Sucralose

In 2004, health became the new standard for the global food industry.

Diet, Diabetes, and Disease

- Diabetes is the sixth leading cause of death in the United States, affecting over 18 million people.
- Soft drinks are link to weight gain, and Pepsi and Coca-Cola introduced reduced-sugar colas.
- Omega-3 fatty acids (DHA and EPA)
 could be labeled "Heart Healthy"

Nutraceuticals and Disease

- Vitamin A, C, and E, are most popular antioxidants
- Vitamin E, Green Tea, and Soy are ready to take on cancer
- Choline, folic acid, and Vitamin B could help neuron growth.
- Soy extracted phytoestrogen (plant-based estrogens) could replace hormone therapy
- Lutein be found in such foods as dark-green leafy vegetables, can reverse damage to the eyes from aging.

LDL, Cholesterol, HDL

- Average Americans LDL is 127(normal is 100), and there are current 29 million patients at risk for heart problems, and only 18 million on statin regimen.
- Lipitor (Pfizer), Crestor (AstraZeneca),
 Vytorin (Schering-Plough), and Zocor
 (Merck) etc. These statins could help reduce
 LDL or cholesterol, and prevent
 cardiovascular diseases.
- Statins in the 2004 pharmaceutical markets values are more than 20 millions.

Obesity is still a growing problem worldwide

- Obesity could increase related chronic diseases rates such as diabetes, cardiovascular diseases, osteoarthritis, and cancer.
- Some biomolecular such as leptin, ghrelin, protein YY (PYY), and cholecystokinin, may related to fighting obesity.
- Xenical (Roche), Reductil (Abbott), and Acomplia (Sanofi-Aventis, Phase III) could treatment for obesity(\$ 500 million in 2003; 2.3 billion in 2013).
- United States spent over \$ 75 billion on medical expenditures attributable to obesity in₁₆

Functional food blur the line between food and medicine

- Functional foods are cheaper and safer alternative to pharmaceuticals.
- Americans spent 10 of billion of dollars in 2004 on functional foods, drinks, and supplements.
- Energy-boosting ingredients including amino acids, vitamins, and herbs.
- Avon, Shiseido, L'Ore'al, Nestle, all join the market, especially on anti-aging.

Products to Watch in 2005

- Omega-3 fatty acids
- Low-carb food products
- Liquid meal replacements
- Drinks



Potential annual savings with nutraceuticals / functional foods

- Disease Prevention \$ 20 billion
- Disease Management \$ 10 billion

Focus Disease Markets on

- Cardiovascular disease, and risk factors
- Type II diabetes
- Cancer
- Osteoporosis
- Kidney disorders
- Inflammatory conditions
- Psychiatric disorders
- Others



簡報結束,敬請指正!



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