

NUTRACEA
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PROSPECTUS

**NutraCea
32,050,000 Shares of Common Stock**

This prospectus relates to the disposition of up to 32,050,000 shares of NutraCea common stock or interests therein by the shareholders named in this prospectus under the heading "Selling Security Holders". We will not receive any of the proceeds from the disposition of the shares covered hereby or interests therein, although we will receive the proceeds from the cash exercise of warrants to acquire certain of these shares.

Our common stock is quoted on the Over-the-Counter ("OTC") Bulletin Board under the symbol "NTRZ". On May 9, 2007, the last sale price of our common stock on the OTC Bulletin Board was \$4.30 per share.

Our principal executive offices are located at 5090 N. 40th Street, Suite 400, Phoenix, AZ 85018, and our telephone number is 602-522-3000.

INVESTING IN THE COMMON STOCK OFFERED HEREIN INVOLVES A HIGH DEGREE OF RISK. YOU SHOULD PURCHASE SHARES ONLY IF YOU CAN AFFORD A COMPLETE LOSS OF YOUR INVESTMENT. YOU SHOULD CONSIDER CAREFULLY THE "RISK FACTORS" CONTAINED IN THIS PROSPECTUS BEGINNING ON PAGE 5.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR DETERMINED IF THIS PROSPECTUS IS TRUTHFUL OR COMPLETE. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this prospectus is May 16, 2007.

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ABOUT THIS PROSPECTUS

We have not authorized anyone to provide information different from that contained in this prospectus. This prospectus is not an offer to sell nor is it seeking an offer to buy these securities in any jurisdiction where such offer or sale is not permitted. The information contained in this prospectus is accurate only as of the date of this prospectus, regardless of the time of delivery of this prospectus or of any sale of the common stock. In this prospectus, references to “NutraCea”, the “Company”, “we”, “us” and “our” refer to NutraCea, a California corporation.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

Some of the statements in this prospectus and in any prospectus supplement we may file constitute “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. These statements relate to future events concerning our business and to our future revenues, operating results, and financial condition. In some cases, you can identify forward-looking statements by terminology such as “may,” “will,” “could,” “would,” “should,” “expect,” “plan,” “anticipate,” “intend,” “believe,” “estimate,” “forecast,” “potential,” or “continue” or the negative of those terms or other comparable terminology.

Any forward looking statements contained in this prospectus or any prospectus supplement are only estimates or predictions of future events based on information currently available to our management and management’s current beliefs about the potential outcome of future events. Whether these future events will occur as management anticipates, whether we will achieve our business objectives, and whether our revenues, operating results, or financial condition will improve in future periods are subject to numerous risks. The section of this prospectus captioned “Risk Factors,” beginning on page 4, provides a summary of the various risks that could cause our actual results or future financial condition to differ materially from forward-looking statements made in this prospectus. The factors discussed in this section are not intended to represent a complete list of all the factors that could adversely affect our business, revenues, operating results, or financial condition. Other factors that we have not considered may also have an adverse effect on our business, revenues, operating results, or financial condition, and the factors we have identified could affect us to a greater extent than we currently anticipate. Before making any investment in our securities, we encourage you to carefully read the information contained under the caption “Risk Factors,” as well the other information contained in this prospectus and any prospectus supplement we may file.

“TheraFoods,” “NutraCea,” “NutraBeauticals,” “RiSolubles,” “RiceMucil,” “RiceMucille,” “StaBran,” “SolublesS,” “ZymeBoost,” “NutraHGH,” “Equineceuticals,” “FiberSolutions,” “NutraBreathe,” “LiverBoost,” “RiceLean,” “VetC,” “PetCeuticals,” Caduceus logo, “HiFiSolubles,” “Therafeed,” “Via-Bran,” “Proventics,” “SuperSolubles,” “Nourishing The B Health,” “Proceuticals,” “Cea100,” “DiaBoost” and “NutraBalance” are registered trademarks of NutraCea.

RiceX® and RiceX Solubles® are registered trade names of The RiceX Company, NutraCea’s wholly owned subsidiary. Mirachol®, Max "E"® and Max "E" Glo® are registered trademarks of The RiceX Company.

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PROSPECTUS SUMMARY

The following summary is qualified in its entirety by the information contained elsewhere in this prospectus. You should read the entire prospectus, including "Risk Factors" and the financial statements before making an investment decision.

Issuer: NutraCea
5090 N. 40th Street, Suite 400
Phoenix, AZ 85018

Description of Business: We are a developer, formulator and distributor of nutraceutical, health, cosmetic and nutrition products using stabilized rice bran and specially formulated rice bran oil. We have also developed dietary products that provide the benefits of stabilized rice bran and rice bran oil as a nutritional supplement for humans and animals. Consumer products are marketed under the TheraFoods® name. Medical supplements are marketed under the NutraCea® name. Products for veterinary and animal use are marketed under the NutraGlo® name. Cosmetics are marketed under the NutraBeautical® name. A description of our business begins on page 22 of this prospectus.

On October 4, 2005, we acquired The RiceX Company. The RiceX Company manufactures and distributes nutritionally dense foods and food ingredients made from stabilized rice bran for supply to the global food manufacturing and equine feed industries.

The Offering: This offering relates to the disposition of shares of our common stock, or interests therein, that are outstanding and shares of our common stock that may be acquired from time to time upon exercise of outstanding options and warrants. The selling shareholders and the number of shares that may be disposed of by each are set forth on page 66 of this prospectus.

Shares: 32,050,000 shares of our common stock. A description of our common stock is set forth on page 64 of this prospectus.

Manner of Sale: The selling shareholders may sell, transfer or otherwise dispose of any or all of their shares of common stock or interests in shares of common stock on any stock exchange, market or trading facility on which the shares are traded or in private transactions. These dispositions may be at fixed prices, at prevailing market prices at the time of sale, at prices related to the prevailing market price, at varying prices determined at the time of sale, or at negotiated prices. A description of the manner in which sales may be made is set forth in this prospectus beginning on page 71 of this prospectus.

Use of Proceeds: We will not receive any of the proceeds from the disposition of our common stock, or interest therein, by the selling shareholders.

Risk Factors: The securities offered hereby involve a high degree of risk and will result in immediate and substantial dilution. A discussion of additional risk factors relating to our stock, our business and this offering begins on page 5 of this prospectus.

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RISK FACTORS

Please carefully consider the specific factors set forth below as well as the other information contained in this prospectus before purchasing shares of our common stock. This prospectus contains forward-looking statements that involve risks and uncertainties. Our actual results may differ significantly from the results discussed in the forward-looking statements.

Risks Related to Our Business

We have a limited operating history and have just generated our first profits since we began operations.

We began operations in February 2000 and incurred losses in each reporting period until 2006. Our prospects for financial success are difficult to forecast because we have a relatively limited operating history. Our prospects for financial success must be considered in light of the risks, expenses and difficulties frequently encountered by companies in new, unproven and rapidly evolving markets. Our business could be subject to any or all of the problems, expenses, delays and risks inherent in the establishment of a new business enterprise, including limited capital resources, possible delays in product development, possible cost overruns due to price and cost increases in raw product and manufacturing processes, uncertain market acceptance, and inability to respond effectively to competitive developments and attract, retain and motivate qualified employees. Therefore, there can be no assurance that our business or products will be successful, that we will be able to achieve or maintain profitable operations, or that we will not encounter unforeseen difficulties that may deplete its capital resources more rapidly than anticipated.

There are significant market risks associated with our business.

We have formulated our business plan and strategies based on certain assumptions regarding the size of the rice bran market, our anticipated share of this market and the estimated price and acceptance of our products. These assumptions are based on the best estimates of our management; however there can be no assurance that our assessments regarding market size, potential market share attainable by us, the price at which we will be able to sell our products, market acceptance of our products or a variety of other factors will prove to be correct. Any future success may depend upon factors including changes in the dietary supplement industry, governmental regulation, increased levels of competition, including the entry of additional competitors and increased success by existing competitors, changes in general economic conditions, increases in operating costs including costs of production, supplies, personnel, equipment, and reduced margins caused by competitive pressures.

We depend on limited number of customers.

During 2006, we received approximately 67% of product sales revenue from five customers and approximately 48% of our revenue from one customer. A loss of any of these customers could have a material adverse effect on our revenues and results of operations.

We rely upon a limited number of product offerings.

All of our products are based on stabilized rice bran. Although we will market stabilized rice bran as a dietary supplement, as an active food ingredient for inclusion in our products and in other companies' products, and in other ways, a decline in the market demand for our products, as well as the products of other companies utilizing our products, could have a significant adverse impact on us.

We are dependent upon our marketing efforts.

We are dependent on our ability to market products to animal food producers, food manufacturers, mass merchandise and health food retailers, and to other companies for use in their products. We must increase the level of awareness of dietary supplements in general and our products in particular. We will be required to devote substantial management and financial resources to these marketing and advertising efforts and there can be no assurance that it will be successful.

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We rely upon an adequate supply of raw rice bran.

All of our current products depend on our proprietary technology using unstabilized or raw rice bran, which is a by-product from milling paddy rice to white rice. Our ability to manufacture stabilized rice bran is currently limited to the production capability of our facility at Farmers Rice Cooperative and our single value added products plant in Dillon, Montana. Between the Dillon, Montana plant and the facility at Farmers Rice Cooperative, we currently are capable of producing just enough finished products to meet current demand. The existing plants do not allow for dramatic expansion for product demand, therefore we need additional domestic capacity. Anticipating increased demand for our products, we completed the first phase of an expansion the Dillon, Montana facility in 2006 which was completed in 2006 and placed in operations in 2007. We have also entered into a new raw rice bran supply agreement with LRM in Louisiana. The supply agreement led to the construction of a new stabilization plant in Mermentau which we anticipate will be operating by April of 2007. These facilities plus another stabilization and value added plant scheduled to be operational by the end of 2007 should meet our production needs for 2007, but are not anticipated to be sufficient to meet our longer term supply needs. Therefore, we anticipate building new facilities to meet the forecasted demand for our products and envision we will be able to execute on this initiative. In the event we are unable to create additional production capacity to produce more stabilized rice bran products to fulfill our current and future requirements this could materially and adversely affect our business, results from operations, and financial condition.

We are pursuing other supply sources in the United States and in foreign countries and anticipate being able to secure alternatives and back-up sources of rice bran, although we have not entered into any definitive agreements other than the agreements with Farmers Rice Cooperative and Louisiana Rice Mill. However, there can be no assurance that we will continue to secure adequate sources of raw rice bran to meet our requirements to produce stabilized rice bran products. Since rice bran has a limited shelf life, the supply of rice bran is affected by the amount of rice planted and harvested each year. If economic or weather conditions adversely affect the amount of rice planted or harvested, the cost of rice bran products that we use may increase. We are not generally able to pass cost increases to our customers and any increase in the cost of stabilized rice bran products would have an adverse effect on our results of operations.

We face competition.

Competition in our targeted industries, including nutraceuticals, functional food ingredients, rice bran oils, animal feed supplements and companion pet food ingredients is vigorous, with a large number of businesses engaged in the various industries. Many of our competitors have established reputations for successfully developing and marketing their products, including products that incorporate bran from other cereal grains and other alternative ingredients that are widely recognized as providing similar benefits as rice bran. In addition, many of our competitors have greater financial, managerial, and technical resources than us. If we are not successful in competing in these markets, we may not be able to attain our business objectives.

Our products could fail to meet applicable regulations which could have a material adverse affect on our financial performance.

The dietary supplement and cosmetic industries are subject to considerable government regulation, both as to efficacy as well as labeling and advertising. There is no assurance that all of our products and marketing strategies will satisfy all of the applicable regulations of the Dietary Supplement, Health and Education Act, the Food, Drug and Cosmetic Act, the U.S. Food and Drug Administration and/or the U.S. Federal Trade Commission. Failure to meet any applicable regulations would require us to limit the production or marketing of any non-compliant products or advertising, which could subject us to financial or other penalties.

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Our success depends in part on our ability to obtain patents, licenses and other intellectual property rights for our products and technology.

We have one patent entitled Methods for Treating Joint Inflammation, Pain and Loss of Mobility, which covers both humans and mammals. In addition, our subsidiary RiceX has five United States patents and may decide to file corresponding international applications. RiceX holds patents to the production of Beta Glucan and to a micro nutrient enriched rice bran oil process. RiceX also holds patents to a method to treat high cholesterol, to a method to treat diabetes and to a process for producing Higher Value Fractions from stabilized rice bran. The process of seeking patent protection may be long and expensive, and there can be no assurance that patents will be issued, that we will be able to protect our technology adequately, or that competition will not be able to develop similar technology.

There currently are no claims or lawsuits pending or threatened against us or RiceX regarding possible infringement claims, but there can be no assurance that infringement claims by third parties, or claims for indemnification resulting from infringement claims, will not be asserted in the future or that such assertions, if proven to be accurate, will not have a material adverse affect on our business, financial condition and results of operations. In the future, litigation may be necessary to enforce our patents, to protect our trade secrets or know-how or to defend against claimed infringement of the rights of others and to determine the scope and validity of the proprietary rights of others. Any litigation could result in substantial cost and diversion of our efforts, which could have a material adverse affect on our financial condition and results of operations. Adverse determinations in any litigation could result in the loss of our proprietary rights, subjecting us to significant liabilities to third parties, require us to seek licenses from third parties or prevent us from manufacturing or selling our systems, any of which could have a material adverse affect on our financial condition and results of operations. There can be no assurance that a license under a third party's intellectual property rights will be available to us on reasonable terms, if at all.

We are dependent on key employees and consultants.

Our success depends upon the efforts of our top management team, including the efforts of Bradley D. Edson, our President and Chief Executive Officer, Todd C. Crow, our Chief Financial Officer, Ike E. Lynch, our Chief Operating Officer, Margie D. Adelman, our Secretary and Senior Vice President and Kody K. Newland, our Senior Vice President of Sales and Marketing. Although we have written employment agreements with each of the foregoing individuals there is no assurance that such individuals will not die or become disabled. In addition, our success is dependent upon our ability to attract and retain key management persons for positions relating to the marketing and distribution of our products. There is no assurance that we will be able to recruit and employ such executives at times and on terms acceptable to us.

We Have Not Yet Achieved Positive Cash Flow

We have not generated a positive cash flow from operations continuous period to period since commencing operations. We raised approximately \$50,000,000 in a February 2007 private placement, \$17,560,000 in the form of equity in May 2005, and approximately \$8,000,000 in the form of equity in the October 2004, and paid off all short and long term debt obligations, strengthening our balance sheet and positioning us for the growth in sales we are anticipating. While we believe that we have adequate cash reserves and working capital to fund current operations, our ability to meet long term business objectives may be dependent upon our ability to raise additional financing through public or private equity financings, establish increasing cash flow from operations, enter into collaborative or other arrangements with corporate sources, or secure other sources of financing to fund long-term operations. There is no assurance that external funds will be available on terms acceptable to us in sufficient amount to finance operations until we do reach sufficient positive cash flow to fund our capital expenditures. In addition, any issuance of securities to obtain such funds would dilute percentage ownership of our shareholders. Such dilution could also have an adverse impact on our earnings per share and reduce the price of our common stock. Incurring additional debt may involve

restrictive covenants and increased interest costs and demand on future cash flow. Our inability to obtain sufficient financing may require us to delay, scale back or eliminate some or all of our product development and marketing programs.

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Our products may require clinical trials to establish efficacy and safety.

Certain of our products may require clinical trials to establish our benefit claims or their safety and efficacy. Such trials can require a significant amount of resources and there is no assurance that such trials will be favorable to the claims we make for our products, or that the cumulative authority established by such trials will be sufficient to support our claims. Moreover, both the findings and methodology of such trials are subject to challenge by the FDA and scientific bodies. If the findings of our trials are challenged or found to be insufficient to support our claims, additional trials may be required before such products can be marketed.

Risks Related to Our Stock

Our Stock Price is Volatile.

The market price of a share of our common stock has fluctuated significantly in the past and may continue to fluctuate significantly in the future. During 2006, the high and low sales prices of a share of NutraCea common stock were \$2.74 and \$0.60, respectively. During 2005, the high and low sales prices of a share of our common stock were \$1.81 and \$0.30, respectively. The market price of a share of our common stock may continue to fluctuate in response to a number of factors, including:

- announcements of new products or product enhancements by us or our competitors;
- fluctuations in our quarterly or annual operating results;
- developments in our relationships with customers and suppliers;
- the loss of services of one or more of our executive officers or other key employees;
- announcements of technological innovations or new systems or enhancements used by us or its competitors;
- developments in our or our competitors intellectual property rights;
- adverse effects to our operating results due to impairment of goodwill;
- failure to meet the expectation of securities analysts' or the public; and
- general economic and market conditions.

We have significant "equity overhang" which could adversely affect the market price of our common stock and impair our ability to raise additional capital through the sale of equity securities.

As of March 2, 2007, NutraCea had approximately 134,370,254 shares of common stock outstanding. Additionally, as of March 2, 2007, December 31, 2006, options and warrants to purchase a total of 51,136,597 shares of our common stock were outstanding. The possibility that substantial amounts of our outstanding common stock may be sold by investors or the perception that such sales could occur, often called "equity overhang," could adversely affect the market price of our common stock and could impair our ability to raise additional capital through the sale of equity securities in the future.

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Sales of Our Stock Pursuant to Registration Statements May Hurt Our Stock Price

We granted registration rights to the investors in our October 2005, May 2006 and February 2007 capital stock and warrant financings. As of March 2, 2007, a total of 13,087,627 shares of our common stock remained eligible for resale by selling shareholders that had shares registered on two registration statements that we have filed in connection with October 2005 and May 2006 financings. In addition, this registration statement registers for resale 32,050,000 shares of our common stock relating to our February 2007 financing. Sales or potential sales of a significant number of shares into the public markets may negatively affect our stock price.

The Exercise of Outstanding Options and Warrants May Dilute Current Shareholders

As of March 2, 2007, there were outstanding options and warrants to purchase a total of 51,136,597 shares of our common stock. Holders of these options and warrants may exercise them at a time when we would otherwise be able to obtain additional equity capital on terms more favorable to us. Moreover, while these options and warrants are outstanding, our ability to obtain financing on favorable terms may be adversely affected.

We may need to raise funds through debt or equity financings in the future, which would dilute the ownership of our existing shareholders and possibly subordinate certain of their rights to the rights of new investors.

We may choose to raise additional funds in debt or equity financings if they are available to us on terms we believe reasonable to increase our working capital, strengthen our financial position or to make acquisitions. Any sales of additional equity or convertible debt securities would result in dilution of the equity interests of our existing shareholders, which could be substantial. Additionally, if we issue shares of preferred stock or convertible debt to raise funds, the holders of those securities might be entitled to various preferential rights over the holders of our common stock, including repayment of their investment, and possibly additional amounts, before any payments could be made to holders of our common stock in connection with an acquisition of the company. Such preferred shares, if authorized, might be granted rights and preferences that would be senior to, or otherwise adversely affect, the rights and the value of our common stock. Also, new investors may require that we and certain of our shareholders enter into voting arrangements that give them additional voting control or representation on our board of directors.

The authorization of our preferred stock may have an adverse effect on the rights of holders of our common stock.

We may, without further action or vote by holders of our common stock, designate and issue shares of our preferred stock. The terms of any series of preferred stock could adversely affect the rights of holders of our common stock and thereby reduce the value of our common stock. The designation and issuance of preferred stock favorable to current management or shareholders could make it more difficult to gain control of our Board of Directors or remove our current management and may be used to defeat hostile bids for control which might provide shareholders with premiums for their shares.

We may engage in future acquisitions that dilute our shareholders and cause us to incur debt or assume contingent liabilities.

As part of our strategy, we expect to review opportunities to buy other businesses or technologies that would complement its current products, expand the breadth of its markets or enhance technical capabilities, or that may otherwise offer growth opportunities. In the event of any future acquisitions, we could:

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- issue stock that would dilute current shareholders' percentage ownership;
- incur debt; or
- assume liabilities.

These purchases also involve numerous risks, including:

- problems combining the purchased operations, technologies or products;
- unanticipated costs;
- diversion of management's attention from our core business;
- adverse effects on existing business relationships with suppliers and customers;
- risks associated with entering markets in which we have no or limited prior experience; and
- potential loss of key employees of purchased organizations.

We cannot assure you that we will be able to successfully integrate any businesses, products, technologies or personnel that we might purchase in the future.

Compliance with corporate governance and public disclosure regulations may result in additional expenses.

Changing laws, regulations and standards relating to corporate governance and public disclosure, including the Sarbanes-Oxley Act of 2002, and new regulations issued by the Securities and Exchange Commission, are creating uncertainty for companies. In order to comply with these laws, we may need to invest substantial resources to comply with evolving standards, and this investment would result in increased general and administrative expenses and a diversion of management time and attention from revenue-generating activities to compliance activities.

Our officers and directors have limited liability and have indemnification rights

Our Articles of Incorporation and by-laws provide that we may indemnify our officers and directors against losses sustained or liabilities incurred which arise from any transaction in that officer's or director's respective managerial capacity unless that officer or director violates a duty of loyalty, did not act in good faith, engaged in intentional misconduct or knowingly violated the law, approved an improper dividend, or derived an improper benefit from the transaction.

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The Shares covered by this prospectus are being registered for the account of the selling shareholders. We will not receive any proceeds from the disposition of common stock, or the interests therein, by the selling shareholders.

PRICE RANGE OF COMMON STOCK

Our common stock currently trades on the OTC Bulletin Board (“OTCBB”) exchange under the symbol “NTRZ.OB”. The following table sets forth the range of high and low closing sales prices for our common stock as reported on the OTCBB for the periods indicated below. The quotations below reflect inter-dealer prices, without retail mark-up, markdown or commission, and may not represent actual transactions.

NUTRACEA COMMON STOCK	Low	High
Year Ended December 31, 2006		
Fourth Quarter	\$ 1.30	\$ 2.74
Third Quarter	\$ 0.80	\$ 1.38
Second Quarter	\$ 0.60	\$ 1.45
First Quarter	\$ 0.65	\$ 1.42
Year Ended December 31, 2005		
Fourth Quarter	\$ 0.65	\$ 1.17
Third Quarter	\$ 0.39	\$ 1.81
Second Quarter	\$	