



TECHNICAL BULLETIN

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TERRA-PURE™ CERTIFIED

Spray Dried Aloe Vera Powder Regular, 200X

INCI Name: Aloe Barbadensis Leaf Juice

REGULAR
 Code: TN001CR

Produced According to Organic Agricultural Standards



APPEARANCE:

COLOR

% MOISTURE

MAXIMUM DISPERSION RATE @ 25° C

TOTAL ALOE SOLIDS

IASC

Fine Powder
 Light Cream to Beige
 8% Max
 5 Minutes
 100%
 Complies

AFTER RECONSTITUTION

(1:199 with D.I. Water)

pH

SPECIFIC GRAVITY @ 25° C

MICROBIOLOGY

Total Plate Count

3.5 - 5.0
 0.997 - 1.004
 < 100 cfu/g
 No pathogens

CERTIFICATION:

This product is certified for content and purity by the International Aloe Science Council (IASC). In addition, this product carries the USDA (NOP)/IFOAM Organic Certification

PACKAGING:

Heat Sealed Barrier Bag or Fiber Drum (up to 80 lbs. per unit)

CAUTIONS:

Store in cool, dry place. Once reconstituted, product will darken with age. Preservatives must be added after reconstitution as this product is non-preserved. See Material Safety Data Sheet for additional cautions.

DESCRIPTION:

TERRA-PURE™ Spray Dried Aloe Vera Powder is a convenient-to-use version of Aloe Vera Gel for use in cosmetics, toiletries, edible products and O.T.C. pharmaceuticals. Terry Laboratories begins with freshly harvested leaves of the Aloe Vera Barbadensis Miller variety of Aloe. The inner gel (fillet) is carefully removed to minimize disruption of the Aloin layer. The gel is then further processed to remove the pulp and fiber. The resultant gel is pasteurized to maintain its efficacy.

The gel is then concentrated utilizing low temperature evaporation to produce a liquid concentrate ready for spray drying. The gel remains under refrigeration until dried. The gel concentrate is spray dried without the use of a matrix, nor the addition of preservatives or other additives. This highly concentrated spray dried material saves substantially on shipping and handling costs.

04/05

Technical information and suggestions for use, including any formulations and procedures, are believed to be correct. However this does not constitute a guarantee of the accuracy of the information contained herein and confirming tests in your own plant or laboratory are recommended. No statement or suggestion of use should be construed as a recommendation or inducement to violate any patent rights, and no patent liability can be assumed.

TERRA-PURE™ CERTIFIED SPRAY DRIED ALOE VERA POWDER

USES:

In response to the rapidly growing demand from our customers in the natural products, functional foods and nutraceutical industries, Terry Laboratories created the first 100% USDA (NOP)/IFOAM certified organic Aloe Vera powders. The gel of the Aloe Vera plant is legendary for its unique properties to

soothe and moisturize dry, irritated or damaged skin. Today, most consumers know of Aloe's unique benefits and use it daily in their skin care, hair care, health care and O.T.C. pharmaceutical products.

Here are some examples of the types of products that TERRA-PURE™ may be used in:

EDIBLE PRODUCTS

- Health Drinks (100% Aloe)
- Juice Blends with Aloe
- Health Foods
- Sports/Fitness Drinks

O.T.C. PHARMACEUTICALS

- Topical Analgesics/Anesthetics
- Hydrocortisone Creams
- First Aid Sprays/Creams/Gels
- Anti-Acne Preparations
- Medicated Powders/Talcs
- Toothpaste/Oral Rinses

SKIN and HAIR CARE

- Sun Care and After Sun Products
- Hand & Body Lotions/Gels
- Skin Cleansers (retains moisture)
- Powders & Talcs
- Shampoos/Conditioners/All-In-Ones
- Permanent Wave Solutions
- Facial Moisturizers
- Shaving/Depilatory Preparations
- Glamour Cosmetics (Hydrophilic)
- Bath Powders
- Anti-Dandruff Shampoos
- Styling/Sculpting Gels

WHAT PERCENTAGE TO USE?

Depending on the application (and of course budget), you will most likely want to use a level (%) which is both cost-effective and efficacious in your product formulation.

Over the many years that TERRY's been involved in developing products with Aloe Vera, we have found percentages nearing 100% Aloe Vera Gel (or single strength equivalent "SSE") to be both stable and highly effective; However, it has been our experience that levels as low as 10% SSE can enhance the function of many products.

The key to remember is this: If you are using Aloe Vera in a product formulation primarily to have it appear on the label, then concerns about the percentage to use (say below 5% SSE) are really immaterial; However, if you want the product to perform better because of the presence of Aloe Vera Gel, then try using 10% SSE or more. You and the consumer will perceive a difference.

If you want to use 10% SSE of Aloe Vera Gel in a product formulation, the following is a guide to use when using TERRA-PURE™:

	Single Strength (SSE)	TERRA-PURE™ (TN001CR)
PERCENTAGE:	10%	0.05%