



Department of General Services  
Procurement Division  
707 Third Street, 2<sup>nd</sup> Floor  
West Sacramento, CA 95605-2811

State of California  
**CONTRACT NOTIFICATION**  
\*\*\*\*MANDATORY\*\*\*\*

CONTRACT NUMBER:	1-09-89-121
DESCRIPTION:	Cornstarch
CONTRACTOR(S):	Meridian Food Services
CONTRACT TERM:	January 1, 2009 thru June 30, 2009
DISTRIBUTION LIST:	Statewide Institutions
STATE CONTRACT ADMINISTRATOR:	Sandi Rizzo 916-375-4479 <a href="mailto:sandi.rizzo@dgs.ca.gov">sandi.rizzo@dgs.ca.gov</a>

\_\_\_\_\_ original signed \_\_\_\_\_  
Dion Campos, Food Acquisitions Manager

Date: **November 26, 2008**

Contract 1-09-89-121  
Contract Notification and User Guide

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**Quick Reference Guide**

Both the State and the contractor(s) have assigned contract administrators as the single points of contact for problem resolution and related contract issues.

**State Contract Administrator:**

Administrator:	Sandi Rizzo
Address:	DGS/Procurement Division 707 3 <sup>rd</sup> Street, 2 <sup>nd</sup> Floor, MS201 West Sacramento, CA 95605
Phone:	(916) 375-4479
Fax:	(916) 375-4439
Email Address:	sandi.rizzo@dgs.ca.gov

**Supplier Contact Information:**

Contact:	Rebecca Kitchings
Address:	Meridian Food Services 6080 Shaker Drive Riverside, CA 92506
Phone:	(951) 222-2141
Fax:	(951) 222-2183
Email Address:	eggsandcheese@msn.com
Federal Employee Tax ID #:	33-0818425
Office of Small Business and DVBE Certification #:	OSDC # - 17621

**Terms of Contract:**

Offered Terms of Payment:	¼%; 21 days
FOB:	Destination
Minimum Order:	\$100.00
Product Price Terms:	Firm Fixed
Due Date of PO to Supplier:	15 days prior to delivery

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**General Terms & Conditions**

**1. SCOPE**

The State's contract with Meridian Food Services is to provide Cornstarch at contracted pricing to the State of California in accordance with the requirements of Contract # 1-09-89-121. The contractor shall supply the entire portfolio of products as identified in the contract and will be the primary point of contact for data collection, reporting, and distribution of Cornstarch to the State.

The contract term is for 6 months. The State has the right to exercise the option to extend the contract for an additional 6 months (or any portion thereof) upon mutual agreement with the contractor. Terms and conditions shall remain the same for the entire contract period including any extensions.

All contract extensions shall be time-based for the stated term and will not have limits to the amount of product quantities guaranteed during the extension term (Exception: see Pg.13, Contractors Guide No. 6).

**2. CONTRACT PRICING STRUCTURE**

All pricing is listed on Attachment, Cost Sheets.

All contract items are mandatory for participants, there will be no exceptions.

**3. ORDERING PROCEDURE:**

State departments must submit a Purchasing Authority Purchase Order (Std. 65) directly to the contractor. Agency billing code numbers are required for placement of *all* orders.

There are three ordering methods available on this contract:

- U.S. Mail
- Facsimile
- Email

When using any of the three ordering methods, all State departments must conform to proper State procedures.

**Contractor Ordering Information**

The ordering information for each contractor is listed in the Quick Reference Guide, Supplier Contact Information.

The contractor must receive agency Purchasing Authority Purchase Order (STD 65) and the delivery schedule 15 days prior to the requested first date of the delivery schedule. The Contractor shall then confirm with the Institution its' desired delivery schedule. All deliveries are to be made according to the requested delivery schedule or preferred one-time delivery.

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**General Terms & Conditions continue...**

The contractor shall reject Agency's Purchasing Authority Purchase Order (STD 65) that fails to comply with the terms of the above paragraph.

Such rejected Purchasing Authority Purchase Order (STD 65) may be re-submitted for delivery the following month.

If a new contract is not in place by the first day of the expiring month of this contract, purchase orders can be submitted up to the final day of contract expiration. Quantities should be relative to regular ordering patterns. Excessive quantities will be reviewed by the State and Contractor for acceptance. The Contractor will be responsible for the deliveries on this contract up to thirty (30) days past the expiration date of the contract.

At any time, the State may request copies of any Purchase Order drawn from this contract. Please retain all Purchase Order copies for future request.

**4. ORDER LIMITS**

The minimum order shall be **\$100.00** per delivery. Orders for less than the minimum order shall be considered non-contract and may be purchased from other sources.

**5. ORDER ACKNOWLEDGEMENT**

The contractor shall provide the ordering agencies with an order receipt acknowledgement containing a unique order number either via e-mail or facsimile within 48 hours of receipt of order.

The acknowledgement shall include:

- Ordering Agency Name
- Purchase Order Number
- Total Cost
- Delivery Date

**6. FREIGHT ON BOARD (F.O.B.) DESTINATION**

All prices are F.O.B. destination; freight prepaid by the contractor, to the ordering organization's receiving point. Responsibility and liability for loss or damage for all orders will remain with the contractor until final inspection and acceptance, when all responsibility will pass to the ordering organization, except the responsibility for latent defects, fraud, and the warranty obligations.

**7. EMERGENCY/EXPEDITED ORDERS**

If there is an emergency order, the contractor has the right to accept shorter delivery times, which will be subject to LESS-THAN-TRUCKLOAD (LTL) freight rates.

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**General Terms & Conditions continue...**

Contractor shall notify the ordering agency upon receipt of the order that such higher freight rates are forthcoming. Such notification shall be by telephone and confirmed in writing within 24 hours of receipt of any late order against this contract.

In addition to normal delivery schedules in all other California counties, the contractor is requested to make deliveries, during off-peak hours, only in these areas: Los Angeles County, Orange County, San Bernardino-Metropolitan area, and the San Diego-Metropolitan area. Off peak hours are 10:00 am to 4:00 pm.

**8. SHIPPED ORDERS/PRESERVATION, PACKAGING & PACKING**

Unless otherwise specified, preservation, packaging and packing shall be to a degree of protection to preclude damage to containers and/or contents thereof under normal shipping conditions. Handling, etc., shall conform to normal commercial practices and applicable carrier rules and regulations involving shipment from the contractor to the receiving agency for storage.

Packaging and shipping containers shall be in compliance with National Motor freight Classification and Uniform Freight Classification. (Reference [www.nmfta.org](http://www.nmfta.org) for information; issue in effect at time of shipment.)

Each shipping case or shipping unit shall clearly indicate the manufacturer or contractor, a complete description including size and quantity, manufacturer's product code number (if applicable) and net weight.

All shipments must comply with General Provisions; Paragraph 12 entitled "Packing and Shipment". The General Provisions are available at:  
<http://www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf>

Foil, that may present a security or safety risk, is not acceptable packaging material.

**9. PALLETIZATION**

All pallets employed in the delivery of goods shall be of sturdy construction and adequate condition to assure delivery of the goods without damage to the goods or safety hazards.

Exchange pallets may be available; however, the State assumes no responsibility for the availability to exchange pallets. Delivery drivers shall not remove more pallets from the institutions than delivering at time of delivery.

**10. QUALITY ASSURANCE**

All products ordered shall be delivered under acceptable standard sanitary conditions and must be in the correct quantity and free of damage.

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**General Terms & Conditions continue...**

The contractor shall provide recall notification, regardless of level, in writing to the State and each institution through the most expedient method possible. The notices, at a minimum, shall include a complete product description and/or identification, contract number, delivery order number and disposition instructions. The contractor shall issue replacement of product or credit for any product removed or recalled. Each facility shall have the option of accepting either replacement product or credit in exchange for recalled/removed products.

**11. INVOICING REQUIREMENTS**

Ordering Agencies may require separate invoicing, as specified by each ordering organization. Invoices will contain the following information:

- Contractor's name, address and telephone number
- State's contract number
- Agency purchase order number
- Item and commodity code number
- Quantity purchased
- Contract price and extension
- State sales and/or use tax
- Prompt payment discounts/cash discounts, if applicable
- Totals for each order

The contractor shall render invoices as instructed on individual orders. Invoices shall include the order number, the contract number, the item number, the description, the unit price, the extension, and the terms for payment.

**12. SPECIFICATIONS**

The offered product(s) must be in accordance with the attached bid specifications:

**8920-08BS-024 dated 9/11/2008 Starches, Edible**

All items furnished shall be latest pack on date of shipment and shall be first quality when grade is not specified.

**13. PAYMENT**

Offered payment terms for this contract are as follows:

<b>Contractor</b>	<b>Terms</b>
Meridian Food Services	¼%; 21 days

Payment will be made in accordance with the provisions of the California Prompt Payment Act, Government Code Section 927 etc. seq. Unless expressly exempted by statute, the Act requires State departments to pay properly submitted, undisputed invoices not more than forty-five (45)

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**General Terms & Conditions continue...**

days after the date of acceptance of goods, performance of services, or receipt of an undisputed invoice, whichever is later.

**14. PRICES**

Prices will be **firm fixed** for the duration of the contract, including any extensions.

**15. FORCED, CONVICT, AND INDENTURED LABOR**

No foreign-made equipment, materials, or supplies furnished to the State pursuant to this contract may be produced in whole or in part by forced labor, convict labor, or indentured labor. The contractor agrees to comply with this provision of the contract.

**16. ATTACHMENTS**

- Contract Pricing
- State Specification(s)  
    **8920-08BS-024 dated 9/11/2008 Starches, Edible**
- Nutritional Facts

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**Agency/Users Guide**

**1. CONTRACT USAGE/RULES**

- A. The use of this contract is mandatory for all State agencies participating in this contract.
- B. Ordering State departments must adhere to all applicable State laws, regulations, policies, best practices, and purchasing authority requirements, e.g. California Codes, Code of Regulations, State Administrative Manual, Management Memos, and State Contract Manual Volume 2 and 3, as applicable.
- C. Prior to placing orders against this contract, State departments must have been granted purchasing authority by the Department of General Services, Procurement division (DGS/PD) for the use of the State's statewide contracts. The department's current purchasing authority number must be entered in the appropriate location on each purchase document. Departments that have not been granted purchasing authority by DGS/PD for the use of the State's statewide contracts may access the Purchasing Authority Application at <http://www.pd.dgs.ca.gov/deleg/pamannual.htm> or may contact DGS/PD's Purchasing Authority Management Section by e-mail at [pams@dgs.ca.gov](mailto:pams@dgs.ca.gov).
- D. State departments are required to have a Department of General Services (DGS) agency billing code prior to using this contract. DGS agency billing codes may be obtained by contacting the DGS billing code contact and providing the following:
- State Department Name
  - Contact name
  - Telephone number
  - Mailing address
  - Facsimile number and e-mail address

Email the required information to the following DGS billing code contacts:

- [Marilyn.ebert@dgs.ca.gov](mailto:Marilyn.ebert@dgs.ca.gov) and
- [Wilson.lee@dgs.ca.gov](mailto:Wilson.lee@dgs.ca.gov)

**2. DGS ADMINISTRATIVE FEES**

The DGS will bill each State department an administrative fee for use of this statewide contract. The administrative fee should NOT be included in the order total, nor remitted before an invoice is received from DGS. (For current fees you may click on "DGS Price Book" at: <http://www.ofs.dgs.ca.gov/Price+Book/P/Purchasing.htm>.)

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**Agency/Users Guide continue...**

**3. PROBLEM RESOLUTION**

The first step in problem resolution is to call the contractor(s) directly. Ordering agencies with unresolved issues should immediately notify the State's contract administrator for resolution. Agency must submit a completed Contractor Performance Report to the contract administrator within 3 days of occurrence.

**4. PURCHASE EXECUTION**

A. State departments must use the Purchasing Authority Purchase Order (Std. 65). An electronic version of the Std. 65 is available at the Office of State Publishing web site:

<http://www.dgs.ca.gov/osp> (select Standard Forms).

B. All State agencies will submit a copy of any executed purchase order(s) documents to:

DGS/Procurement Division (IMS# Z-1)  
Attn: Data Entry Unit, Second Floor, MS 203  
707 Third Street, 2<sup>nd</sup> Floor North  
West Sacramento, CA 95605-2811

**5. PAYEE DATA RECORD**

Each State accounting office must have a copy of the Payee Data Record (Std. 204) in order to process payments. Agencies should forward a copy of the Std. 204 to their accounting office(s). Without the Std. 204, payment may be unnecessarily delayed. Copies of the awardees Payee Data Records are on file. Should an agency need a copy, please contact the contract administrator for this contract.

The Federal Employee ID numbers are listed below:

<b>Contractor Name</b>	<b>Federal Employee ID Number</b>
Meridian Food Services	33-0818425

**6. SMALL BUSINESS CERTIFICATION**

The small business (SB) certification(s) is listed below. Agencies can verify that the certifications are currently valid at the following website: <http://www.pd.dgs.ca.gov/smbus/default.htm>.

<b>Contractor Name</b>	<b>OSDS Certification #</b>
Meridian Food Services	17621

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**Agency/Users Guide continue...**

**7. AGENCY NOTE: DRUG-FREE WORKPLACE CERTIFICATION**

The contractor certified under penalty of perjury under the laws of the State of California that the Contractor(s) will comply with the requirements of the Drug-Free Workplace Act of 1990 (Government Code Section 8350 et seq.) and will provide a drug-free workplace by taking the actions required of Government Code Section 8355(a), (b), and (c).

Based on the above, when ordering against this contract, using agencies are not required to have the Contractor(s) submit a Drug-Free Workplace Certificate.

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**Contractors Guide**

**1. DELIVERY INSTRUCTIONS**

It shall be the contractor's responsibility to obtain proper clearance for delivery drivers prior to any and all deliveries throughout the California State Prison system. The contractor must contact the individual agency for specific clearance procedures, as these procedures may vary from facility to facility.

**2. DELIVERY TIMELINES**

This contract will be separate from any other contract. Deliveries required from this contract shall NOT be withheld due to the unavailability of goods for delivery under any other contract. Failure to deliver goods in strict conformance with the terms and conditions of this contract will incur default action as provided for under Section 26 of the General Provisions. This includes timeliness of deliveries and quality levels of items received.

NOTE: Holding orders for full truckloads is not acceptable. If your company is found doing so, without authorization from the institution(s) being delivered to, your company can be found in default of the contract.

**3. CONTRACTOR REPORTING REQUIREMENTS**

The requirement to provide contract activity reports is a mandatory contract requirement that speaks to the issue of your firm being a responsible supplier to the State of California. The required reports shall be submitted to the State **monthly**, commencing on the 5<sup>th</sup> day of the proceeding month to the Contract Administrator. If the State does not receive the required reports by the required dates, your firm may be prevented from bidding on future bids until such time we receive these reports. A sample of this report is attached in Section VIII, Forms & Attachments, and Attachment 1. The State's form must be used (if you did not receive a copy, request a copy via email from the contract administrator). The report must be done in the State's Excel spreadsheet form, and submitted to the contract administrator by disk or by email. This report must be done per order, per commodity, per institution. Invoice copies or list of purchase orders will not fulfill this requirement. This report is to include:

1. Agency Name
2. Purchase Order Number
3. Purchase Order Date
4. Number of Deliveries per PO
5. Delivery Date
6. Agency Billing Code
7. Line Item Number & Description
8. Quantity Ordered
9. Contract Cost Per Unit
10. Total cost Item
11. Total per PO, Per Delivery
12. Monthly Grand Total per Institution

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**Contractors Guide continue...**

The contractor must total each PO, each Institution, and a grand total for the complete month.

**4. 30-DAY TERMINATION**

The State may terminate this contract for convenience upon thirty (30) days written notice. Upon termination or other expiration of this contract, each party will assist the other party in an orderly termination of the contract, as to facilitate the orderly, non-disrupted business continuation of each party.

**5. QUANTITY**

Quantities shown for each line item are estimated and are the anticipated purchasing pattern. Actual purchases may vary from this pattern. The State will not be obligated to purchase contractors' excess inventory of any line item if actual purchases vary from the anticipated purchasing pattern. The State may purchase these items from other than the contractor in the event of an emergency.

**6. CONTRACT DOLLAR VALUE**

If the contract dollar value plus 40% is expended before the expiration date, the contractor shall notify the State contract administrator immediately. The contractor is responsible for providing a written notification along with providing all usage reports for justification. The contractor shall include a statement of intention to either continue or terminate the contract. The contractor may continue to accept orders until the State returns a written decision of the disposition of the contract. At that time, the contract may be terminated by either party or, by mutual agreement, be allowed to continue until the expiration date or such other date mutually agreed upon.

The contractor shall refuse to accept any orders after a date set for termination, and the state may disclaim liability for any purchases made after such date. The total dollar value of this contract is subject to a variance. If the expiration date occurs before the contract dollar value less 20% is expended, the contract may be extended, upon mutual State and Contractor's agreement, until the minimum dollar value is reached.

The State shall be excused from purchasing the minimum contract quantities to the extent that such reduced requirements are caused by closure of State facilities, cancellation, or reduction of State programs or lack of appropriations.

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**Contractors Guide continue...**

**7. MODIFICATION OF CONTRACT**

Delivery sites may be added or deleted as deemed necessary by DGS' Procurement Division.

At the discretion of the State, any contract may be modified in whole or in part upon mutual agreement of both parties. Such modifications shall be in writing, signed and dated by an authorized representative of each party.

**8. EMERGENCY EXTENSION OPTION**

In the event of an emergency, the State upon mutual agreement with the contractor may extend the contract for up to one (1) additional year beyond the stated term and any noted extensions. Extensions during this period may occur in various increments until the establishment of a new contract (the total of the Emergency extension(s) terms shall not exceed one (1) additional year). All original Terms and Conditions shall remain the same during the extensions. Emergency Extension option may be exercised in the event that a replacement contract cannot be established due to the protest of Intent to Award, loss of key State procurement staff, or other circumstance that would otherwise cause an unanticipated disruption in the State contracting process.

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Cost Sheets

<b>Item</b>	<b>Unit</b>	<b>Commodity #</b>	<b>Description</b>	<b>Unit Price</b>
(1)	LB	8920-920-0597-7	<b>Cornstarch Type 1</b>	<b>\$.475</b>
		Manufacturer:	Tate & Lyle	
		Brand Offered:	PFP	
		Packaging:	50 LB Bag	
		Product Code:	0597-7	
(2)	LB	8920-920-0050-5	<b>Cornstarch Pregelatinized Modified Instant Type II</b>	<b>\$ 1.465</b>
		Manufacturer:	Tate & Lyle	
		Brand Offered:	Dura Gel	
		Packaging:	50 LB Bag	
		Product Code:	0050-5	
(3)	LB	8920-920-0488-0	<b>Cornstarch, Modified Type III</b>	<b>\$ 1.025</b>
		Manufacturer:	Tate & Lyle	
		Brand Offered:	Kolguard 7413	
		Packaging:	50 LB Bag	
		Product Code:	0849-8	



# STATE OF CALIFORNIA

## Bid Specification Starches, Edible

8920-08BS-024

### 1.0 SCOPE

This bid specification identifies requirements for edible starches suitable for use by State of California Institutions.

### 2.0 GENERAL REQUIREMENTS

- 2.1 The products shall comply with all applicable Federal & State mandatory requirements and regulations relating to the preparation, packaging, labeling, storage, distribution, and sales of the product within the commercial marketplace.
- 2.2 The products shall be prepared in accordance with the 21 CFR §110, Current Good Manufacturing Practice in Manufacturing, Packing, or Holding Human Food.
- 2.3 The products shall comply with the provisions of the Federal Food, Drug, and Cosmetic Act and regulations promulgated thereunder.

### 3.0 REQUIREMENTS

#### 3.1 Type 1 – Starch, Corn

- 3.1.1 Type I starch shall be a pure, unmodified, pulverized, white, free flowing powder derived from dent corn (maize).
- 3.1.2 When heated, it shall thicken just prior to boiling.
- 3.1.3 It shall possess a bland to slight corn cereal flavor, characteristic of maize.

#### 3.2 Type II – Starch, Pre-gelatinized Modified Instant

- 3.2.1 Type II starch shall be a modified, pre-gelatinized instant starch.
- 3.2.2 It shall be white, free flowing, waxy, maize food starch. It shall have little or no granule fragmentation.
- 3.2.3 It shall thicken and gel without heat.
- 3.2.4 It shall not show consistency losses at high cooking temperatures and pH of 3.5 to 4.2.

#### 3.3 Type III – Starch, Modified

- 3.3.1 Type III starch shall be modified, white, free flowing, odorless, and finely pulverized.
- 3.3.2 It shall be a modified waxy maize starch requiring cooking to gelatinize.
- 3.3.3 It shall demonstrate an initial viscosity development in the temperature range of 140° to 170° F and a typical viscosity (be fully hydrated) at common retort temperatures.
- 3.3.4 It shall resist breakdown at low pH, under shear stress, and under conditions of cold storage.
- 3.3.5 Fruit fillings and sauces prepared with this starch shall have good clarity and a smooth stable texture and body.

#### 4.0 ANALYTICAL REQUIREMENTS

- 4.1 When tested in accordance with methods as prescribed in Official Methods of the Association of Official Analytical Chemists (AOAC), the starches shall adhere to the requirements in Table I.

**TABLE I - CHEMICAL AND PHYSICAL REQUIREMENTS**

Type	Min. Percent Starch	Max. Percent Moisture	Particle Size 1/
I	85	14	90 percent through No. 100 Sieve
II	88	10	95 percent through No. 80 Sieve
III	85	14	90 percent through No. 100 Sieve

1/ Minimum (percent) through U.S. Standard sieve.

- 4.2 **Viscosity Test for Type II Starch:** When required, the apparent viscosity of Type II starch shall be determined using the Bostwick method. The readings shall be not less than 3.0 or more than 7.5 centimeters.

# TATE & LYLE

CONSISTENTLY FIRST IN RENEWABLE INGREDIENTS

Nutritional

Pure Food Powder Type I

Product Code for 50#  
- 05977

## Nutritional Information

Nutrients Per 100 Grams

GRAMS WATER.....	10.0
CALORIES.....	358
GRAMS PROTEIN.....	0.26
GRAMS ASH.....	< 0.01
GRAMS SALT.....	< 0.01
GRAMS TOTAL FAT.....	
GRAMS AVAILABLE CARBOHYDRATE.....	89.7
GRAMS TOTAL DIETARY FIBER.....	
MILLIGRAMS CALCIUM.....	0.45
MILLIGRAMS PHOSPHORUS.....	16.0
MILLIGRAMS IRON.....	0.2
MILLIGRAMS SODIUM.....	8.5
MILLIGRAMS POTASSIUM.....	4.5
MILLIGRAMS MAGNESIUM.....	2.4
INTERNATIONAL UNITS VITAMIN A.....	
MILLIGRAMS VITAMIN B <sub>1</sub> (THIAMINE).....	
MILLIGRAMS VITAMIN B <sub>1</sub> (RIBOFLAVIN).....	
MILLIGRAMS NIACIN.....	
MILLIGRAMS VITAMIN C.....	

STALEY PURE FOOD POWDER STARCH IS KOSHER.

- Notes: 1 This product is not a significant source of protein, fat, Fiber, vitamins, minerals, sugar or cholesterol.  
2 This product is not a significant source of trans - fatty acid. The quantity of trans - fatty acid in this product is < .01%.

01/05

Tate & Lyle

2200 E. Eldorado Street

Decatur, IL 62525

Phone: 217/423-4411

Fax: 217/421-2218

[www.tateandlyle.com](http://www.tateandlyle.com)

The information contained in this bulletin should not be construed as recommending the use of our product in violation of any patent, or as warranties (expressed or implied) of non infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies and regulatory review to determine the fitness of Tate & Lyle products for their particular purposes product claims or specific applications.

## Specification Sheet

### Pure Food Powder

Routine Tests	Specifications	Test Numbers
Moisture	9.0 - 11.0%	46550
Foreign Matter	10 ppm max.	32555
pH (uncooked)	3.5 - 7.0	60550
Grits (On U.S. #100)	1.0% max.	35560
RVA 98° C Hold Viscosity	600 - 1400 cps	90573

Pure Food Powdered Starch is suitable for food application.

#### FDA Status

Complies with FDA Regulation 21CFR182.1 as Corn Starch - Generally recognized as safe.

#### Recommended Storage Conditions

Store at ambient temperature and humidities. Storage in a cool, dry area will increase shelf life.

#### Shelf Life

Twelve months.

#### Availability

Available in 50 and 100 lb. multiwall paper bags and bulk.

(Revised 6/11/2003)

# TATE & LYLE

100% PURELY PLANT-BASED INGREDIENTS

Product Code for 50#  
0050-5

## Nutritional

### GELATINIZED DURA-JEL

#### Nutritional Statement

#### Nutrients Per 100 Grams

GRAMS WATER .....	4.0
CALORIES .....	381
GRAMS PROTEIN .....	0.12
GRAMS ASH .....	0.5
GRAMS SALT .....	< .01
GRAMS TOTAL FAT .....	
GRAMS AVAILABLE CARBOHYDRATE .....	95.4
GRAMS TOTAL DIETARY FIBER .....	
MILLIGRAMS CALCIUM .....	0.2
MILLIGRAMS PHOSPHORUS .....	1.2
MILLIGRAMS IRON .....	0.1
MILLIGRAMS SODIUM .....	200
MILLIGRAMS POTASSIUM .....	0.6
MILLIGRAMS MAGNESIUM .....	0.2
INTERNATIONAL UNITS VITAMIN A .....	
MILLIGRAMS VITAMIN B <sub>1</sub> (THIAMINE) .....	
MILLIGRAMS VITAMIN B <sub>2</sub> (RIBOFLAVIN).....	
MILLIGRAMS NIACIN .....	
MILLIGRAMS VITAMIN C .....	

**NOTE:** This product is not a significant source of protein, fat, fiber, vitamins or minerals.

7/3/2004

Tate & Lyle 2209 E. Eldorado Street Decatur, IL 62525 Phone: 217/423-4411 Fax: 217/421-2210 [www.tateandlyle.com](http://www.tateandlyle.com)

The information contained in this bulletin should not be construed as recommending the use of our product in violation of any patent, or as warranties (expressed or implied) of non infringement or its fitness for any particular purpose. Prospective purchasers are invited to conduct their own tests, studies and regulatory review to determine the fitness of Tate & Lyle products for their particular purposes product claims or specific applications.

# TATE & LYLE

CONSISTENTLY FIRST IN RENEWABLE INGREDIENTS

## Specification Sheet

Product Code for 50#  
0050-5

## GELATINIZED DURA-JEL® Starch

Routine Tests	Specifications	Test Numbers
Moisture	6.0% max.	46015
Screen Analysis (15 Min. Ro-Tap):		
Thru U.S. #100	70.0% min.	70050
Thru U.S. #200	55.0% max.	70053
Foreign Matter	10 ppm max.	32557
pH	5.0 - 6.0	60045
Total Bacteria Count	20,000/g. max.	10560
Mold	100/g. max.	47010
Yeast	100/g. max.	97010
RVA viscosity, initial	700-1500 cps	91172
RVA viscosity, final	780-1310 cps	91173

### FDA Status

Complies with FDA Regulation 21CFR172.892 as Food Starch - Modified.

### Recommended Storage Conditions

Store at ambient temperature and humidities. Storage in a cool, dry area will increase shelf life.

### Shelf Life

Twelve months.

(Revised 1/2/2004)

#0849-3



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NUTRITIONAL INFORMATION

KOL GUARD 7413

Nutrients Per 100 Grams

GRAMS WATER . . . . .	11.0
CALORIES . . . . .	354
GRAMS PROTEIN . . . . .	.2
GRAMS ASH . . . . .	.3
GRAMS SALT . . . . .	nil
GRAMS TOTAL FAT . . . . .	nil
GRAMS AVAILABLE CARBOHYDRATE . . . . .	88.5
GRAMS TOTAL DIETARY FIBER . . . . .	nil
MILLIGRAMS CALCIUM . . . . .	.8
MILLIGRAMS PHOSPHORUS . . . . .	1.2
MILLIGRAMS IRON . . . . .	.2
MILLIGRAMS SODIUM . . . . .	220
MILLIGRAMS POTASSIUM . . . . .	.9
MILLIGRAMS MAGNESIUM . . . . .	.2
INTERNATIONAL UNITS VITAMIN A . . . . .	nil
MILLIGRAMS VITAMIN B <sub>1</sub> (THIAMINE) . . . . .	nil
MILLIGRAMS VITAMIN B <sub>1</sub> (RIBOFLAVIN) . . . . .	nil
MILLIGRAMS NIACIN . . . . .	nil
MILLIGRAMS VITAMIN C . . . . .	nil

Product Code for 50<sup>LB</sup>  
0849-4

**TATE & LYLE**

**KOL. GUARD® 7413**

<u>Routine Tests</u>	<u>Specifications</u>	<u>Test Number</u>
Moisture	10.0 - 13.0%	46015
Foreign Matter	10 ppm (max.)	32555
Color	10 (max.)	22568
Ash	0.6% (max.)	09560
pH (uncooked)	5.2 - 6.2	60550
Non-waxy Starch	8% (max.)	93820
Total Bacteria Count	20,000 (max)	10560
Mold	100 max/g	47010
Yeast	100 max/g	97010
<b>Thermophilic Spore Counts:</b>		
Total Thermophiles	150 max/10 g	16010
Flat Sours	75 max/10 g	16011
Sulfide Spoilage Spores	5 max/10 g	16012
Gas Forming Anaerobic Spores	4 max/6 tubes	16013
Flavor	Good	31060
Odor	Good	52560
<b>Brabender Viscosity in 6.5 pH Buffer Containing Salt:</b>		
Initial Viscosity @ 95° C	375 - 525 B.U.	87504
After 30 Minutes @ 95° C	400 - 600 B.U.	87505
After 10 Minutes @ 50° C	600 - 950 B.U.	87507
<b>Brabender Viscosity, Peak Viscosity Breakdown</b>		
Peak Viscosity	290 - 450 B.U.	86835
Breakdown	30 B.U. max.	86837
Acetyl Value, dsb	1.6 - 2.5%	02025

**FDA Status**

Complies with FDA Regulation 21CFR172.892 as Food Starch - Modified.

**Recommended Storage Conditions**

Store at ambient temperature and humidities. Storage in a cool, dry area will increase shelf life.

**Shelf Life**

Twelve months.

Revised 6/20/03