



# Potential Competitors for food-related APIs

## Edamam API

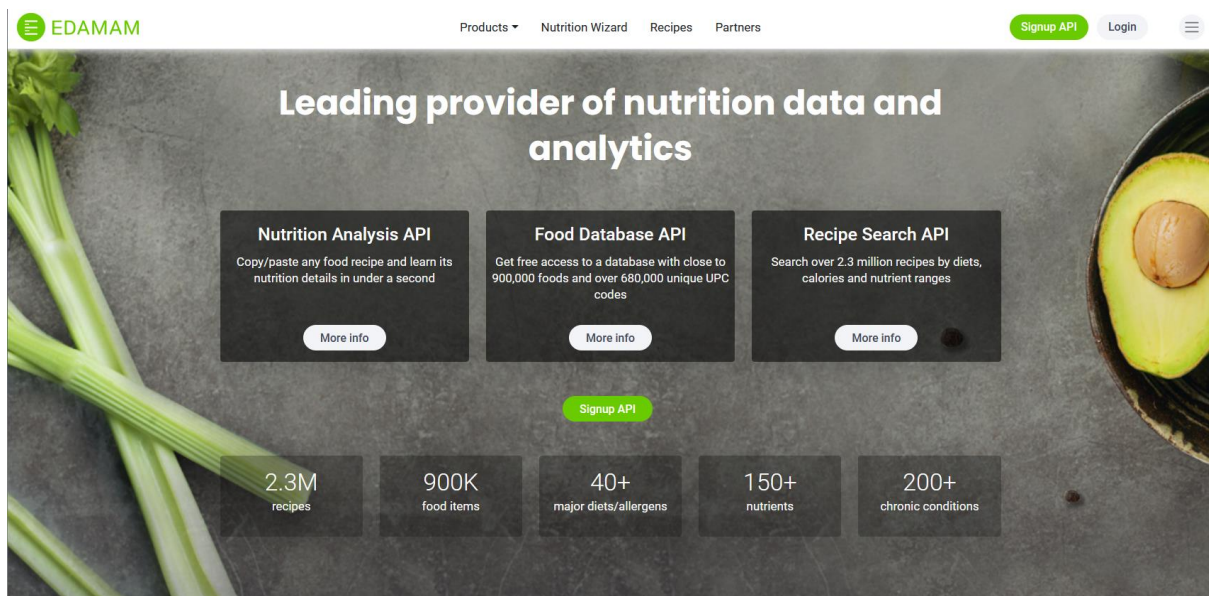
*Provides access to a large database of recipes, nutrition data, and food-related information.*

**Origin** – United States

**URL** – <https://www.edamam.com/>

**Primary Functionality:**

- Consumer-oriented and large-scale applications
- Nutrition Analysis (150+ Nutrient fields)
- Food Database Lookup (900k food items)
- Food Entity Extraction
- Recipe Selection (2.3 Million recipes)
- Meal Recommendation (Personalized with nutrient and dietary considerations)



Edamam Home page design

## Nutrition Analysis

Copy/paste any food recipe and learn its nutrition details in under a second

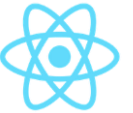
[Learn more](#)

[Get Started](#)

[Try API Demo](#)

Analyze your meal  
Nutrition Wizard





## Food Database Lookup

Get free access to a database with close to 900,000 foods and over 680,000 unique UPC codes

[Learn more](#)

Get Started

Try API Demo

## Food Entity Extraction

Analyze any food text and use our powerful food named entity extraction

[Learn more](#)

Get Started

Try API Demo

2 tomatoes

tomato

2

Whole

My recipes

Salad 2

Foods

Tomatoes - Tomatoes On The Vine - Tomatoes

canned tomato paste

cherry tomato

tomato confit

yellow tomato

canned crushed tomato

canned ripe red tomatoes

Tomato powder

canned low salt tomato juice

canned tomato puree



## Recipe Licensing

License over 180,000 full recipes and nutrition for over 2.3 million web recipes

[Learn more](#)

Contact us

## Meal Recommendation Engine

Personalized meal recommendations using 28 nutrients and 40 diets/allergies

[Learn more](#)

Get Started

Try API Demo

salad

REFINE SEARCH BY: Calories, Diet, Ingredients

Calories

From

To

Ingredients

Up to

Diet

☐ Vegetarian

☐ Vegan

☐ Paleo

☐ High-Fiber

☐ High-Protein

☐ Low-Carb

Low-Fat

☐ Low-Sodium

☐ Low-Sugar

☐ Alcohol-Free

☐ Balanced

☐ Immunity

Allergies

☐ Gluten

☐ Dairy

☐ Soy

☐ Wheat

Fish

☐ Shellfish

☐ Tree Nuts

☐ Peanuts

Done



## Recipe Search

Search over 2.3 million recipes by diets, calories and nutrient ranges

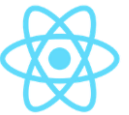
[Learn more](#)

Get Started

Try API Demo

Find something to cook

Recipe Search



## Get Started

<input type="text" value="Username"/>	<input type="text" value="Email"/>
<input type="password" value="Password"/>	<input type="password" value="Confirm password"/>
<input type="text" value="Organization name"/>	<div>Choose your plan </div>

### Sign Up Form

Company

Media

General Terms

API Terms

Privacy

Contact us

Choose your plan

Choose your plan

Nutrition Analysis API:

- Developer
- Enterprise Core

Recipe Search API:

- Developer
- Enterprise Core

Food Database API:

- Developer
- Enterprise Core

Meal Planner API:

- Developer
- Enterprise Core

Drowndown menu (side nav bar) Options

Dropdown menu of potential plans



## Spoonacular API

*Provides recipe information, meal planning, and nutrition analysis.*

**Origin** – United States

**URL** – <https://spoonacular.com/food-api>

### Primary Functionality:

- Consumer-oriented
- Recipe Analysis (Diets, Intolerances, Nutritional Information)
- Meal Planning (115k Menu Items)
- Shopping list integration for meals
- 2600+ Ingredient items
- Recipe selection (5000+ recipes)
- Food Database lookup (600k+ products)

The image shows a screenshot of the Spoonacular API home page. At the top left is the Spoonacular logo, a green circle with a white spoon. To its right is the text "spoonacular API". On the top right is a navigation bar with links: OVERVIEW, DOCS, PRICING, TERMS, APPLICATIONS, and a green button labeled "START NOW". The main content area has a large heading "The only food API you'll ever need." followed by two paragraphs of text. The first paragraph describes the "complex food ontology" and the second gives an example of allergen detection. Below the text is a "Download API slides" link with a PDF icon. On the right side of the page is a large, colorful diagram. It features three main nodes: "menu items" (blue circle with a burger icon), "recipes" (green circle with a pot icon), and "products" (red circle with a shopping basket icon). These nodes are interconnected with smaller circles containing food-related icons like a leaf, a dollar sign, a tomato, a carrot, a chili pepper, and a wheat stalk.

spoonacular API

OVERVIEW DOCS PRICING TERMS APPLICATIONS [START NOW](#)

## The only food API you'll ever need.

Our knowledge engineers spent years crafting our **complex food ontology**, which allows us to understand the relationships between ingredients, recipes, nutrition, allergens, and more.

We understand "nut free" muffins can't contain pecans (even if the recipe doesn't mention "nuts" anywhere!) and we automatically determine that a recipe with Worcestershire sauce isn't vegetarian (we're looking at you, anchovies.)

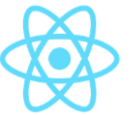
[Download API slides](#)





menu items

products

recipes

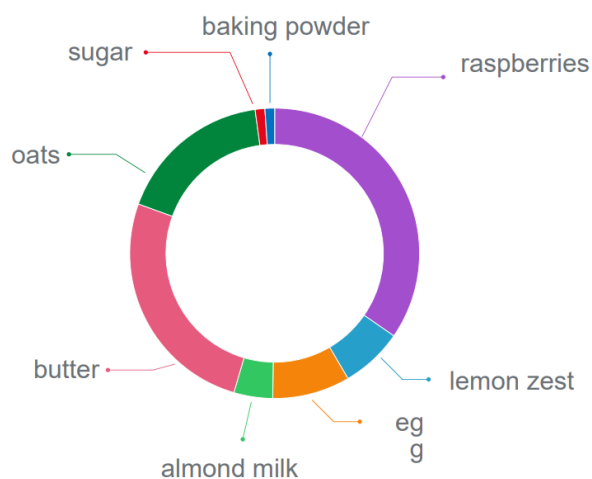
Spoonacular API Home page design



 <b>Ingredients</b> 2,600+ <ul style="list-style-type: none"><li>↳ nutrition data</li><li>↳ price data</li><li>↳ cooking tips</li><li>↳ health information</li><li>↳ substitutions</li><li>↳ conversions</li><li>↳ mapping to products</li></ul>	 <b>Recipes</b> 5,000+ <ul style="list-style-type: none"><li>↳ nutrition analysis</li><li>↳ cost breakdown</li><li>↳ cooking tips</li><li>↳ related recipes</li><li>↳ scaling/converting</li><li>↳ semantic search</li><li>↳ wine pairings</li><li>↳ shoppable content</li></ul>	 <b>Products</b> 600K+ <ul style="list-style-type: none"><li>↳ ingredient analysis</li><li>↳ nutrition data</li><li>↳ nutrition visualization</li><li>↳ descriptions</li><li>↳ product comparison</li><li>↳ product search</li></ul>	 <b>Menu Items</b> 115K+ <ul style="list-style-type: none"><li>↳ over 800 American restaurant chains</li><li>↳ nutrition data</li><li>↳ nutrition visualization</li><li>↳ images</li><li>↳ descriptions</li><li>↳ menu search</li></ul>
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## SERVICES PRICE BREAKDOWN

...



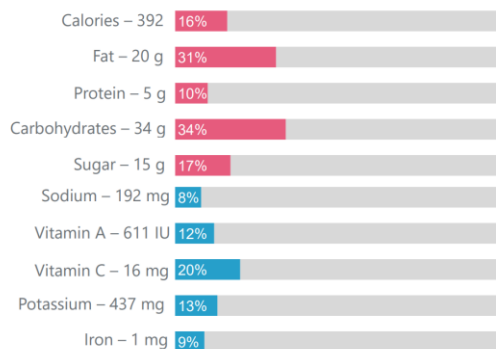
Ingredient	Price
1 cup oats	\$0.32
1/4 cup sugar	\$0.07
2 tsp baking powder	\$0.07
6 tablespoons butter	\$0.73
1/4 cup almond milk	\$0.13
2 cups raspberries	\$3.60
1 teaspoon lemon zest	\$0.17
1 egg	\$0.24

**Total Recipe Cost:** \$5.32  
**Cost Per Serving:** \$2.66

Example UI for displaying breakdown of a meal/recipe

## SERVICES NUTRITIONAL INFORMATION

...



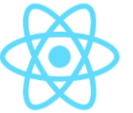
Example UI for displaying Nutritional Information

### Example Request and Response

GET <https://api.spoonacular.com/recipes/complexSearch?query=pasta&maxFat=25&number=2>

```
{
  "offset": 0,
  "number": 2,
  "results": [
    {
      "id": "716429",
      "title": "Pasta with Garlic, Scallions, Cauliflower & Breadcrumbs",
      "image": "https://spoonacular.com/recipeImages/716429-312x231.jpg",
      "imageType": "jpg",
    },
    {
      "id": "715538",
      "title": "What to make for dinner tonight?? Bruschetta Style Pork & Pasta",
      "image": "https://spoonacular.com/recipeImages/715538-312x231.jpg",
      "imageType": "jpg",
    }
  ],
  "totalResults": 86
}
```

Example API request



## Recipes

Search Recipes

Search Recipes by Nutrients

Search Recipes by Ingredients

Get Recipe Information

Get Recipe Information Bulk

Get Similar Recipes

Get Random Recipes

Autocomplete Recipe Search

Taste by ID

Equipment by ID

Price Breakdown by ID

Ingredients by ID

Nutrition by ID

Get Analyzed Recipe Instructions

Extract Recipe from Website

Analyze Recipe

Summarize Recipe

Analyze Recipe Instructions

Classify Cuisine

Analyze a Recipe Search Query

Guess Nutrition by Dish Name

## Ingredients

Search Ingredients

Get Ingredient Information

Compute Ingredient Amount

Convert Amounts

Parse Ingredients

Compute Glycemic Load

Autocomplete Ingredient Search

Get Ingredient Substitutes

Get Ingredient Substitutes by ID

## Products

Search Grocery Products

Grocery Products Overview

Search Grocery Products by UPC

Get Product Information

Get Comparable Products

Autocomplete Product Search

Classify Grocery Product

Classify Grocery Product Bulk

Map Ingredients to Grocery Products

## Menu Items

Search Menu Items

Get Menu Item Information

Autocomplete Menu Item Search

## Meal Planning

Working with the Meal Planner

Get Meal Plan Week

Get Meal Plan Day

Generate Meal Plan

Add to Meal Plan

Clear Meal Plan Day

Delete from Meal Plan

Get Meal Plan Templates

Get Meal Plan Template

Add Meal Plan Template

Delete Meal Plan Template

Get Shopping List

Add to Shopping List

Delete from Shopping List

Generate Shopping List

Compute Shopping List

Search Custom Foods

Connect User

## Restaurants

Search Restaurants

## Wine

Wine Guide

Dish Pairing for Wine

Wine Pairing

Wine Description

Wine Recommendation

## Misc

Search All Food

Image Classification (File)

Image Classification (URL)

Image Analysis (File)

Image Analysis (URL)

Search Food Videos

Quick Answer

Detect Food in Text

Search Site Content

Random Food Joke

Random Food Trivia

Talk to Chatbot

Conversation Suggests

## Guides

Authentication

Rate Limiting & Quotas

Show Images

List of Ingredients

Nutrition

Diets

Intolerances

Cuisines

Meal Types

Recipe Sorting Options

Write a Chatbot

Image Classification Categories

Image Classification

Tutorial with RapidAPI [↗](#)

Tutorial 2 with RapidAPI [↗](#)

Tutorial 3 with RapidAPI [↗](#)

## Widgets

Recipe Nutrition Label Widget

Recipe Nutrition Label Image

Recipe Nutrition Widget

Recipe Nutrition by ID Widget

Recipe Nutrition by ID Image

Recipe Taste Widget

Recipe Taste by ID Widget

Recipe Taste by ID Image

Equipment Widget

Equipment by ID Widget

Equipment by ID Image

Ingredients Widget

Ingredients by ID Widget

Ingredients by ID Image

Price Breakdown Widget

Price Breakdown by ID Widget

Price Breakdown by ID Image

Product Nutrition Label Widget

Product Nutrition Label Image

Product Nutrition by ID Widget

Product Nutrition by ID Image

Menu Item Nutrition Label Widget

Menu Item Nutrition Label Image

Menu Item Nutrition by ID Widget

Menu Item Nutrition by ID Image

Create Recipe Card

Get Recipe Card

Complete detailed API functionality, Structure + Documentation





## NutritionIX API

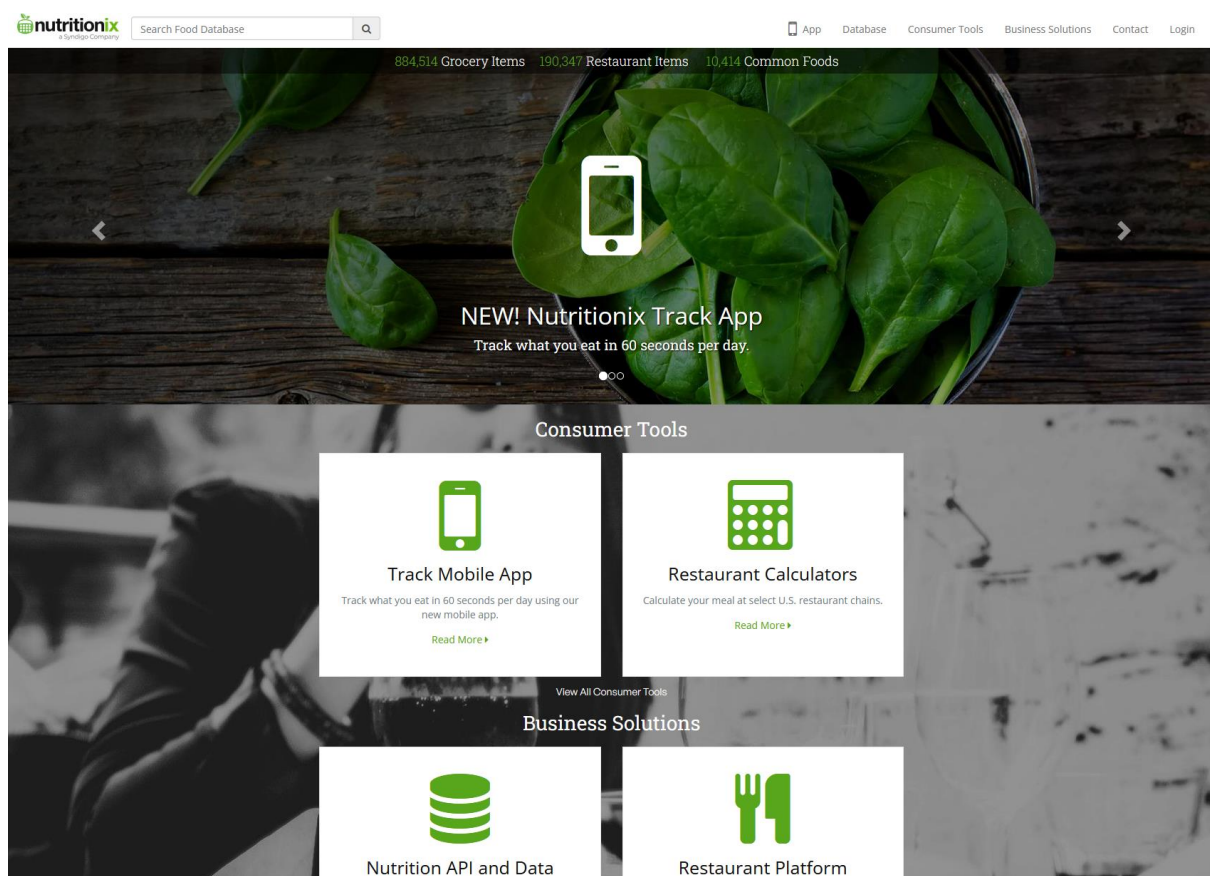
*Offers access to nutrition information for foods and ingredients.*

**Origin** – United States

**URL** – <https://www.nutritionix.com/>


### Primary Functionality:

- Consumer tools + Large-scale operations
- Nutritional information
- 880k+ food items
- 190k+ menu items from Restaurants



NutritionIX Home page design






### Track Mobile App

Developed by a team of registered dietitians, Track by Nutritionix uses state-of-the-art natural language technology to make it quick and easy to track what you eat. Just speak or type freely into the app, and Track takes care of the rest!


[Try the app!](#)



### Calculate Daily Calories

Learn how many estimated calories you should consume each day to maintain or lose weight.


[Try It Out](#)



### Search Engine

Look up the nutrition information for virtually any food. Our database contains 500K+ foods, with new foods being added every day.


[Try Searching](#)



### Nutrition Calculators

Calculate your nutrition from your favorite restaurants using our pre-built calculators.


[View Calculators](#)



### Popular Foods beta

We analyze millions of barcode scans every month to see what health-conscious consumers are eating. Explore which foods are the most popular within our curated food categories.

[Check it out!](#)



### Food Lists

Browse curated lists of foods created by our registered dietitian team.


[View Food Lists](#)

Consumer Tools

## Food Lists


Want to learn more about foods that fit with your diet? Browse our food lists, curated by our in-house team of nutrition experts.




### Which nuts are highest in protein?

By Paige Einstein, RD




### Which vegetables are highest in protein?

By Janna dePorter, MS, RD




### Which grains are high in protein?

By Paige Einstein, RD




### Which cheeses have the most protein?

By Paige Einstein, RD




### Which dairy products have the most protein?

By Paige Einstein, RD



### Which fruits contain the most protein?

By Paige Einstein, RD




### Which meats contain the most protein?

By Paige Einstein, RD

Example of API functionality (List structure)

## Which nuts are highest in protein?





While nuts are most known for their (healthy) fat content, some varieties do pack a modest protein punch. Just don't go too "nuts" - a 1-ounce serving of most contains around 160 calories.










By  Paige Einstein, RD

Last updated on February 06, 2018

Diets related to this list:

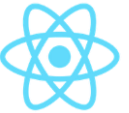
[Low Carb](#) [Ketogenic Diet](#)



Food Name	Protein (g)	Serving
 peanuts	6.9	1 oz
 pistachios	6	1 oz (49 kernels)
 almonds	5.9	1 oz (22 whole kernels)
 cashews	4.3	1 oz
 walnuts	4.3	1 oz (14 halves)
 hazelnuts	4.3	1 oz
 brazil nuts	4.1	1 oz (6 kernels)
 pine nuts	3.9	1 oz (167 kernels)
 pecans	2.6	1 oz (19 halves)

Example of a selected food list





You are here: Restaurants > Subway > Nutrition Calculator

## SUBWAY® Subway Nutrition Calculator

### 1 Build

Start Over

Sandwiches

6" Sandwiches

**Bread**

6" Hearty Multigrain Bread

**Proteins**

Grilled Chicken, Teriyaki Glazed

**Cheese**

Mozzarella, Shredded

**Veggies**

Avocado, Smashed

**Condiments**

Hot Pepper Relish

**Seasonings & Spices**

Pepper, Black

### 2 Customize

6" Sandwiches

1 6" Hearty Multigrain Bread

1 Grilled Chicken, Teriyaki Glazed

1 Mozzarella, Shredded

1 Avocado, Smashed

1 Hot Pepper Relish

1 Pepper, Black

### 3 Share or Log This Meal

Share URL <https://www.nutritionix.com/m/0W> [Share](#) [Log Food](#)

Last Updated: 06/27/2022

Calorie Diet 2000 [Set as default](#) [Print](#)

## Nutrition Facts


Serving Size: 1 x 6" Sandwiches

Amount Per Serving	Calories from Fat 120
<b>Calories 410</b>	
	<b>% Daily Value*</b>
<b>Total Fat 14g</b>	22%
<b>Saturated Fat 4g</b>	20%
<b>Trans Fat 0g</b>	
<b>Cholesterol 60mg</b>	20%
<b>Sodium 1100mg</b>	46%
<b>Total Carbohydrates 46g</b>	15%
<b>Dietary Fiber 5g</b>	20%
<b>Sugars 5g</b>	
<b>Protein 27g</b>	
<b>Vitamin A</b>	2%
<b>Vitamin C</b>	20%
<b>Calcium</b>	6%
<b>Iron</b>	10%

\* Percent Daily Values are based on a 2000 calorie diet.


**INGREDIENTS:** 6" Sandwiches (6" Hearty Multigrain Bread, Avocado, Smashed, Grilled ... [\[View All Ingredients\]](#)


[Disclaimer](#)



You can scan this QR code to track this meal in the [Nutritionix Track mobile app](#).

Consumer Nutritional calculator for selected restaurant chain + customised meal

 [Search Food Database](#) [Q](#) [A](#)



## Apple

### Nutrition Facts

Serving Size: 1 medium (3" dia) (182g) Apple

Amount Per Serving	% Daily Value*
<b>Calories 95</b>	
<b>Total Fat 0.5g</b>	0%
<b>Saturated Fat 0.1g</b>	0%
<b>Trans Fat 0g</b>	
<b>Monounsaturated Fat 0.1g</b>	
<b>Cholesterol 0mg</b>	0%
<b>Sodium 1.0mg</b>	0%
<b>Total Carbohydrates 25g</b>	8%
<b>Dietary Fiber 4.4g</b>	16%
<b>Sugars 19g</b>	
<b>Protein 0.5g</b>	
<b>Vitamin D 0mcg</b>	0%
<b>Calcium 11mg</b>	1%
<b>Iron 0.2mg</b>	1%
<b>Potassium 194.7mg</b>	4%
<b>Caffeine 0mg</b>	

\*The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2000 calories a day is used for general nutrition advice.

### Category

Food / Beverages > Produce > Apples (Fresh)

### How long would it take to burn off 90 KCal?

Walking (3mph)	25 minutes
Running (6mph)	9 minutes
Bicycling (10mph)	13 minutes

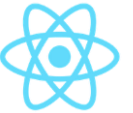
Values estimated based on person weighing 140 lbs. [Login](#) to personalize.

[Find on Amazon](#)

### Suggested Food Lists

- [Which fruits have the most calories?](#)
- [Which fruits contain the most protein?](#)

Search Engine result UI (part A)



100 Calories or Less

Cholesterol Free

Low Cholesterol

Fat Free

Low Fat

Good Source of Fiber

Saturated Fat Free

Low Saturated Fat

Sodium Free

Very Low Sodium

Low Sodium

Cholesterol Free - FDA Shelf Tag

Low Cholesterol - FDA Shelf Tag

Fat Free - FDA Shelf Tag

Low Fat - FDA Shelf Tag

Good Source of Fiber - FDA Shelf Tag

No Added Sugars

No Artificial Sweeteners

No Artificial Colors

No Artificial Flavors

No High Fructose Corn Syrup

No Added Salt

No Artificial Preservatives

No Artificial Ingredients

Vegan

Vegetarian

Pescatarian

Paleo (Strict)

Paleo (Friendly)

Whole Food

Plant Based Whole Food

5 Ingredients or Less

Saturated Fat Free - FDA Shelf Tag

Low Saturated Fat - FDA Shelf Tag

Sodium Free - FDA Shelf Tag

Very Low Sodium - FDA Shelf Tag

Low Sodium - FDA Shelf Tag

Lifestyle - Sodium

Lifestyle - Sugar

Mediterranean Diet

Plant Powered

➕ Add to Food log

📱 Nutritionix App

Source of Calories

Protein 2%

Carbohydrate 95%

Fat 3%

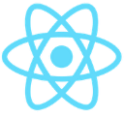
Region: US

🍌 🍌 🍌 Which fruits contain calcium?

🍌 🍌 🍌 Which fruits are lowest in sugar?

[Browse All Lists](#)

Search Engine result UI (part B)



# USDA FoodData Central API

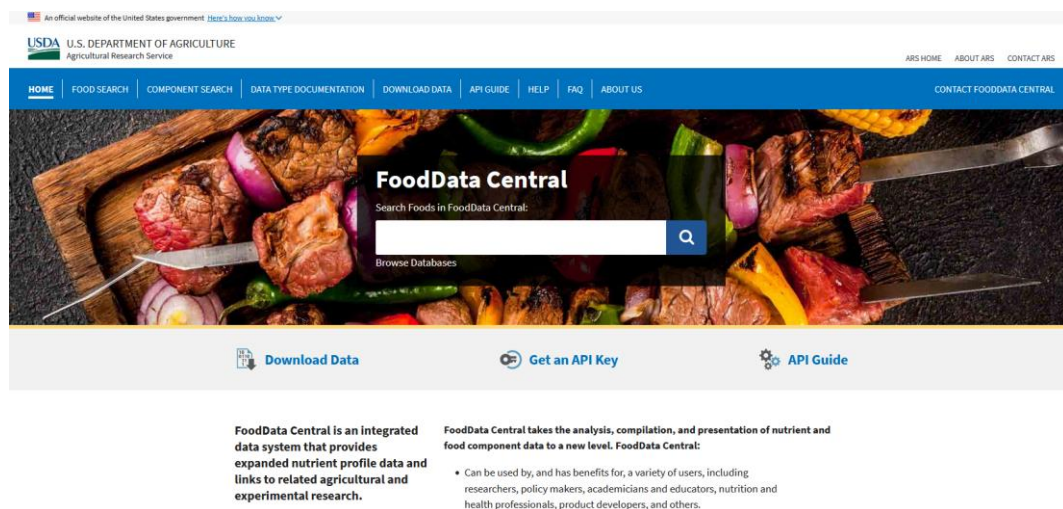
*Provides authoritative nutritional data on a wide range of foods.*

**Origin** – United States

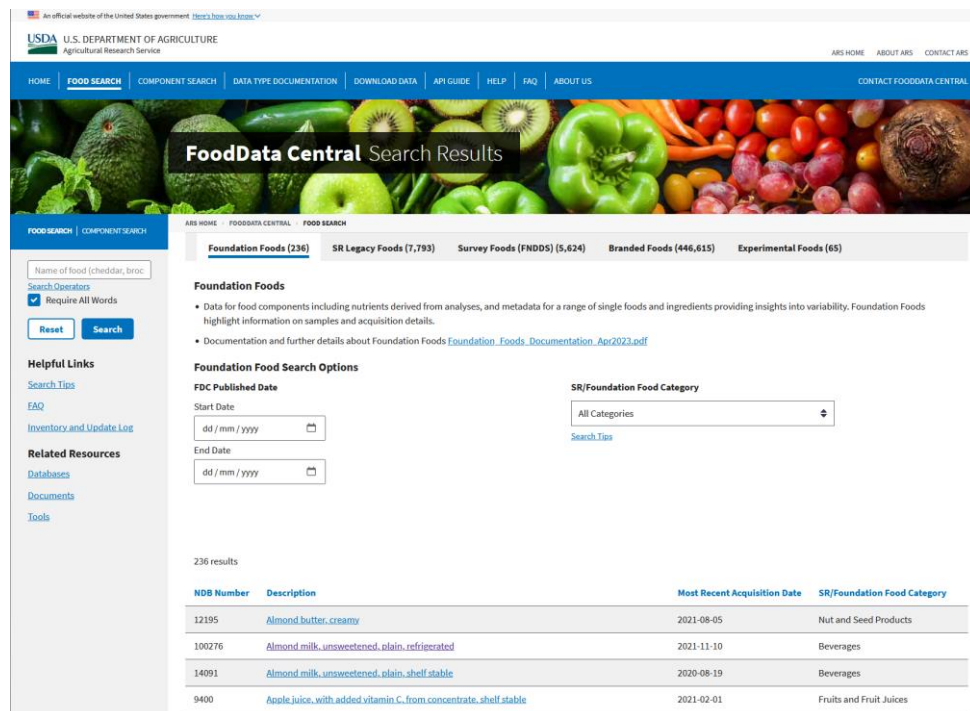
**URL** – <https://fdc.nal.usda.gov/>

**Primary Functionality:**

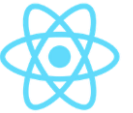
- Large-scale operations
- Food research, nutritional analysis
- 440k branded foods
- ~50-100+ nutrients/components



## USDA Home page design



## Food Search UI



Almond milk, unsweetened, plain, refrigerated

Data Type: Foundation      Food Category: Beverages      FDC ID: 2257045      NDB Number: 100276  
FDC Published: 4/28/2022

Components	Individual Samples
------------	--------------------

Portion: 100g

Name	Average Amount	Unit	Deriv. By	n	Samples	Min	Max	Median	Footnote	Initial Year Acquired
Proximates:										
Water	96.5	g	Analytical	8	<a href="#">Samples</a>	93.7	97.5	97.2		2021
Energy (Atwater General Factors)	19	kcal	Calculated							
Nitrogen	0.1	g	Analytical	8	<a href="#">Samples</a>	0.07	0.24	0.08		2021
Protein	0.66	g	Calculated			0.44	1.5	0.53		
Total lipid (fat)	1.56	g	Analytical	8	<a href="#">Samples</a>	1.15	1.98	1.5		2021
Ash	0.6	g	Analytical	8	<a href="#">Samples</a>	0.21	0.93	0.7		2021
Carbohydrates:										
Carbohydrate, by difference	0.67	g	Calculated							
Fiber, total dietary	<0.75	g	Analytical	8	<a href="#">Samples</a>					2021
Sucrose	0.04	g	Analytical	7	<a href="#">Samples</a>	0	0.27	0		2021
Glucose	<0.25	g	Analytical	7	<a href="#">Samples</a>					2021
Fructose	<0.25	g	Analytical	7	<a href="#">Samples</a>					2021
Lactose	<0.25	g	Analytical	7	<a href="#">Samples</a>					2021
Maltose	<0.25	g	Analytical	7	<a href="#">Samples</a>					2021
Galactose	<0.1	g	Analytical	7	<a href="#">Samples</a>					2021
Minerals:										
Calcium, Ca	158	mg	Analytical	14	<a href="#">Samples</a>	9	225	202		2021

Food item Nutrient (Component) UI