AUSTRALIAN FUNCTIONAL NUTRACEUTICAL
FLAVOURS, FRAGRANCES & INGREDIENTS

Plant Extracts-Naturally Fermented Fruits and Vinegars
Cold Pressed Oils-Essential Oils-Phenolic Rich Powders

FIBRE
APPLE PEEL POWDER & GRAPE SEED POWDER
FOR BAKERY. FLOURS, PASTAS, READY MADE MEALS
FIBRE
APPLE PEEL POWDER & GRAPE SEED POWDER

FUNCTIONALITY AND HEALTH BENEFITS

Functional Benefits

**Added Fibre**
Grape Seed Powder 45%
Apple Peel Powder 30%

**Taste**
Flavour Neutral and Masks bitterness

**Tolerance**
Well tolerated
Helps maintain intestinal regularity with minimal gastric discomfort

**Texture**
Minimal viscosity
No texture/Mouthfeel changes

**Clean Label**
No additives or preservatives
Apple Peel Powder 100% Apple
Grape Seed Powder 100% Grape Seed

**Gluten Free**

**Non GMO**

Processing Benefits
Powder Stability
Processing Stability
High Dispersibility

Apple Peel Powder
Grape Seed Powder

Health Benefits

**Weight Management**
Increases feeling of fullness
Helps reduce cravings for food

**Provides energy**
Promotes regularity
Improves intestinal movement
Helps colon health
FUNCTIONALITY
AND HEALTH BENEFITS

Recommended Daily Dietary Fibre Intake

<table>
<thead>
<tr>
<th></th>
<th>Children</th>
<th>Men Under 50 years</th>
<th>Men Over 50 years</th>
<th>Women Under 50</th>
<th>Women Over 50</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Children</strong></td>
<td>20g</td>
<td>30g</td>
<td></td>
<td>20g</td>
<td>25g</td>
</tr>
<tr>
<td><strong>Men</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Women</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

APPLE PEEL POWDER
35% DIETARY FIBER
35g Per 100g

GRAPE SEED POWDER
45% DIETARY FIBRE
45g Per 100g

Recommended Application Rate for Addition to Common Flours and Starches 10-20%

<table>
<thead>
<tr>
<th>Common Flours and Starches</th>
<th>Fibre Content per 100g</th>
<th>Fibre Content Plus 10g Apple Peel Powder</th>
<th>Fibre Content Plus 10g Grape Seed Powder</th>
<th>Fibre Content Plus 20g Apple Peel Powder</th>
<th>Fibre Content Plus 20g Grape Seed Powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat Flour all purposes</td>
<td>2.7</td>
<td>5.7</td>
<td>7.2</td>
<td>8.7</td>
<td>11.7</td>
</tr>
<tr>
<td>Rice Flour White</td>
<td>2.7</td>
<td>5.7</td>
<td>7.2</td>
<td>8.7</td>
<td>11.7</td>
</tr>
<tr>
<td>Cornmeal Flour</td>
<td>2.7</td>
<td>5.7</td>
<td>7.2</td>
<td>8.7</td>
<td>11.7</td>
</tr>
<tr>
<td>Potato Flour</td>
<td>2.7</td>
<td>5.7</td>
<td>7.2</td>
<td>8.7</td>
<td>11.7</td>
</tr>
<tr>
<td>Tapioca Starch</td>
<td>2.7</td>
<td>5.7</td>
<td>7.2</td>
<td>8.7</td>
<td>11.7</td>
</tr>
<tr>
<td>Cornstarch</td>
<td>2.7</td>
<td>5.7</td>
<td>7.2</td>
<td>8.7</td>
<td>11.7</td>
</tr>
</tbody>
</table>

Fibre from Apples and Grape Seeds has a positive impact on the prevention and management of chronic diseases including heart disease and obesity.
DATA SHEET

PRODUCT

APPLE PEEL POWDER

New Class of Powders combining Phenolics--Fibre and Protein, Vitamin A, Vitamin C, Calcium and Iron.

APPLE PEEL POWDER is a primary source of phenolics, protein, natural sugars and fibre in finished products.

INGREDIENTS

Botanical Name: Malus domestic, Malus pulila
CAS: 89957-48-2
100% Australian Apple Peel
Free from preservatives, fillers and additives.

CONCENTRATED PHYTONUTRIENTS

APPLE PEEL POWDER contains the following highly concentrated natural compounds

Antioxidants: Capture oxygen delaying oxidation which may prevent or delay cell damage.

Phenols: Large group of molecules found in plants. These compounds are responsible for the taste, colour and mouthfeel and are divided into phenolic acids and flavonoids.

APPLE PEEL POWDER contains concentrated quercetin, triterpenoids, ursolic acid, vitamin A, Vitamin C, Calcium and Iron.

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DATA SHEET

PRODUCT
APPLE PEEL POWDER

SPECIFICATIONS

APPLE PEEL POWDER
Colour Light green to Light Brown
Protein 5%
Total Carbohydrates 45%
Dietary Fibre 30%
Sugar 10%
Energy 222kcal 933 kj
Concentrated Polyphenols
Vitamin C
Vitamin A
Iron
Calcium

PACKAGING
1kg, 5kg, 10kg Tubs
20kg Bags

SHELF LIFE AND STORAGE
Shelf Life 2 years from date of manufacture
Store in cool dry environment below 25 degrees celcius.

ALLERGENS

Contains/
Potential Contamination
Cereals & cereal products + Gluten No
Crustaceans & their products No
Eggs & egg products No
Fish & fish products No
Peanuts or peanut products No
Soybeans or their products No
Milk or milk products No
Nuts & nut products No
Celery & celery products No
Mustard & mustard products No
Sesame seeds & sesame products No
Sulphur dioxide & sulphites No

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DATA SHEET

PRODUCT

RED GRAPE SEED POWDER

New Class of Powders combining Phenolics-Natural Oils-Fibre and Protein.

RED GRAPE SEED POWDER is a primary source of phenolics and natural fats, protein, natural sugars and fibre in finished products.

INGREDIENTS

Botanical Name: Vitis Vinifera
CAS: 84929-27-1
100% Australian Grape Seeds

RED GRAPE SEED POWDER

Free from preservatives, fillers and additives.

CONCENTRATED PHYTONUTRIENTS

RED GRAPE SEED POWDER contains the following highly concentrated natural compounds

Antioxidants: Capture oxygen delaying oxidation which may prevent or delay cell damage

Phenols: Large group of molecules found in plants. These compounds are responsible for the taste, colour and mouthfeel and are divided into phenolic acids and flavonoids.

Phenols present in RED GRAPE SEED POWDER Phenolic acids and Flavonoids, Vitamin C, Vitamin E, Anthocyanins, Linoleic Acid; Omega 6 poly unsaturated fatty acid, Oleic Acid; Omega 9 mono unsaturated fatty acid

DIFFERENTIATE YOUR PRODUCT WITH A NEW NATURAL PLANT PHENOL, SUGAR, FAT & FIBRE PROFILE

RED GRAPE SEED POWDER impacts upon the structure, viscosity and consistency of the finished product. It is easy to store and operate. The product is stable with extended shelf life.

Applications

Flavour & Ingredient

Origin: Australia
Shelf Life: Unopened 24 Months
MOQ: 1kg

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DATA SHEET

PRODUCT
RED GRAPE SEED POWDER

SPECIFICATIONS

**RED GRAPE SEED POWDER**
- **Colour**: Red to Deep Red Brown
- **Total Fat**: 8-30%
- **Cholesterol Free Fat**: 100%
- **Total Phenols**: 3-8%
- **Protein**: 8-15%
- **Fibre**: 40-50%
- **Brix**: 5-20%

PACKAGING

- 1kg, 5kg, 10kg Tubs
- 20 kg Bags

SHELF LIFE

Shelf Life 2 years unopened in current packaging.

ALLERGENS

<table>
<thead>
<tr>
<th>Contains/ Potential Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cereals &amp; cereal products + Gluten</td>
</tr>
<tr>
<td>Crustaceans &amp; their products</td>
</tr>
<tr>
<td>Eggs &amp; egg products</td>
</tr>
<tr>
<td>Fish &amp; fish products</td>
</tr>
<tr>
<td>Peanuts or peanut products</td>
</tr>
<tr>
<td>Soybeans or their products</td>
</tr>
<tr>
<td>Milk or milk products</td>
</tr>
<tr>
<td>Nuts &amp; nut products</td>
</tr>
<tr>
<td>Celery &amp; celery products</td>
</tr>
<tr>
<td>Mustard &amp; mustard products</td>
</tr>
<tr>
<td>Sesame seeds &amp; sesame products</td>
</tr>
<tr>
<td>Sulphur dioxide &amp; sulphites</td>
</tr>
</tbody>
</table>

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DATA SHEET

WHITE GRAPE SEED POWDER

New Class of Powders combining Phenolics-Natural Oils-Fibre and Protein.

WHITE GRAPE SEED POWDER is a primary source of phenols and natural; fats, protein, sugars and fibre in finished products.

INGREDIENTS

Botanical Name: Vitis Vinifera
CAS: 84929-27-1
100% Australian Grape Seeds

WHITE GRAPE SEED POWDER
Free from preservatives, fillers and additives.

CONCENTRATED PHYTONUTRIENTS

WHITE GRAPE SEED POWDER contains the following highly concentrated natural compounds

Antioxidants: Capture oxygen delaying oxidation which may prevent or delay cell damage

Phenols: Large group of molecules found in plants. These compounds are responsible for the taste, colour and mouthfeel and are divided into phenolic acids and flavonoids.

Phenols present in WHITE GRAPE SEED POWDER Phenolic acids and Flavonoids, Vitamin C, Vitamin E, Anthocyanins, Linoleic Acid; Omega 6 poly unsaturated fatty acid, Oleic Acid; Omega 9 mono unsaturated fatty acid

DIFFERENTIATE YOUR PRODUCT WITH A NEW NATURAL PLANT PHENOL, SUGAR, FAT & FIBRE PROFILE.

WHITE GRAPE SEED POWDER impacts upon the structure, viscosity and consistency of the finished product. It is easy to store and operate. The product is stable with extended shelf life.

APPLICATIONS

FLAVOUR & INGREDIENTS

Origin Australia

Shelf Life Unopened 24 Months

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DATA SHEET
PRODUCT
WHITE GRAPE SEED POWDER

SPECIFICATIONS

<table>
<thead>
<tr>
<th>WHITE GRAPE SEED POWDER</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Light Brown-Orange</td>
</tr>
<tr>
<td>Total Fat</td>
<td>8-30%</td>
</tr>
<tr>
<td>Cholesterol Free Fat</td>
<td>100%</td>
</tr>
<tr>
<td>Total Phenols</td>
<td>3.3-8%</td>
</tr>
<tr>
<td>Protein</td>
<td>8-15%</td>
</tr>
<tr>
<td>Fibre</td>
<td>40-50%</td>
</tr>
<tr>
<td>Brix</td>
<td>5-20%</td>
</tr>
</tbody>
</table>

PACKAGING

1kg, 5kg, 10kg Tubs
20kg Bags

SHELF LIFE

Shelf life 2 years unopened in original packaging.

ALLERGENS

Contains/Potential Contamination

- Cereals & cereal products + Gluten: No
- Crustaceans & their products: No
- Eggs & egg products: No
- Fish & fish products: No
- Peanuts or peanut products: No
- Soybeans or their products: No
- Milk or milk products: No
- Nuts & nut products: No
- Celery & celery products: No
- Mustard & mustard products: No
- Sesame seeds & sesame products: No
- Sulphur dioxide & sulphites: No

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Botanical Innovations is an Australian Bio Technology company adding value to naturally occurring elements to create functional food and beverage solutions, which combine taste and function.

The company invests heavily in research and development leading to innovations, new products and proprietary production methodologies and the development of a unique range of AUSTRALIAN FUNCTIONAL NUTRACEUTICAL, Flavours, Frances & Ingredients for Functional Foods & Beverages, Natural Healthcare and Cosmeceutical Applications.

The Botanical Innovations product range includes, Plant Extracts, Fermented Plant Extracts, Cold Pressed Seed Oils, Fermented Fruit & Vinegar, Fruit Powders & Essential Oils.

By unlocking natures secrets Botanical Innovations has created new classes of flavours, fragrances and ingredients that contain phenolic rich phyto nutrients the natural chemical compounds produced by plants from photosynthesis.

Our database of scientific literature provides our customers with access to the latest research and applications for our unique range of products.

Botanical Innovations products include:

- **Plant Extracts and Fermented Plant Extract**
  - Grape Seed Extracts
  - Grape Skin Extracts
  - Apple Peel Extracts
  - French Oak Extracts

- **Cold Pressed Oils**
  - Grape Seed Oil
  - Cherry and Macadamia Seed Oil
  - Grape and Macadamia Seed Oil

- **Essential Oils and Aromatic Waters**
  - Basil
  - Oregano
  - Persian Catnip
  - Thyme

- **Fruit Powders**
  - Grape Seed
  - Apple Peel

Botanical Innovations using proprietary technology has created the following unique Flavours, Fragrances and Ingredients from Australian apples and apple pomace.

**APPLE PRODUCTS**
- Apple Extract Flavour and Sweetener
- Apple Cider Vinegar
- Apple Cider Vinegar Powder
- Cold Pressed Apple Seed Oil
- Apple Peel Extract
- Apple Peel Powder

**CONTACT US**

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