AUSTRALIAN FUNCTIONAL INGREDIENTS

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

FERMENTED EXTRACTS

Functional Ingredients that combine Flavour and Health benefits

TURN ORDINARY FOOD INTO SUPER FOODS
ADD FERMENTED EXTRACTS TO CREATE FLAVOUR AND HEALTH BENEFITS

GRAPEXT
Fermented Red Grape Skin Extract
Fermented White Grape Seed Extract
Fermented Red Grape Seed Extract
Fermented White Grade Seed Extract
APPELENO
Fermented Apple Skin Extract

Botanical Innovations
ABN 84 151 629 702
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Orange NSW 2800 Australia
Telephone: +61 488196527
KerryFerguson
@botanicalinnovations.com.au
General.Industry
@bigpond.com
BotanicalInnovations.com.au
FERMENTED EXTRACTS

New Lightly Acidic Functional Ingredients that combine Flavour, Function and Health benefits

New Class of Extract with a vinegar base easy to use in a variety of applications
  - Functional Food and Beverages
  - Nutraceuticals and Supplements
  - Cosmetics

GRAPEXT
Fermented Red Grape Skin Extract
Shelf stable slightly acid red grape skin extract with Resveratrol and Anthocyanins.
Total phenolic content: 10,000-50,000mg/L

Fermented Red Grape Seed Extract
Shelf stable preservative free slightly acidic red grape seed extract with concentract Phenolics, Antioxidants.
Total Phenolic content 10,000-50,000mg/L

Fermented White Grape Skin Extract
Shelf stable slightly acid red grape skin extract with Resversatrol and Anthocyanins.
Total Phenolic content 10,000-50,000mg/L

APPEELEX
Fermented Apple Peel Extract
Shelf stable preservative free slightly acidic apple skin extract with Quercetin, Phenols and Antioxidants. Phenolic content 10,000-50,000mg/L.
### AUSTRALIAN FUNCTIONAL INGREDIENTS

**Plant Extracts - Naturally Fermented Fruits and Vinegars**

**Cold Pressed Oils - Essential Oils - Phenolic Rich Powders**

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#### FERMENTED EXTRACTS

**GRAPEXT**
- Fermented Grape Seed Extract
- Fermented Grape Skin Extract

**APPEELEX**
- Fermented Apple Skin Extract

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#### DIFFERENTIATE YOUR PRODUCTS BY ADDING HEALTH SUPPLEMENTS TO YOUR FOODS AND BEVERAGES TO CREATE SUPERFOODS

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#### Functional Beverage Applications

| Fermented Drinks |           |           |           |
| Soft Drinks       |           |           |           |
| Energy Drinks     |           |           |           |
| Mixers            |           |           |           |
| Cocktail Mixes    |           |           |           |
| Syrups            |           |           |           |
| Premixed Teas     |           |           |           |
| Flavoured Milks   |           |           |           |
| Flavoured Waters  |           |           |           |
| Fruit Juices      |           |           |           |

---

[Botanical Innovations]

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Phenolic compounds are the chemicals produced by plants from photosynthesis.

A plant will produce phenolic compounds to adapt to changing environmental conditions: flood, drought, heat, cold, nutritional stress and disease.

Botanical Innovations has created a unique set of phenolic rich ingredients which contain concentrated phenolics with unique properties developed by plants over millions of years.

A plant's phenolic compound is divided into primary and secondary.

Primary Phenolic Compounds (metabolites)
- Sugars
- Fatty Acids
- Amino Acids
- Nucleic Acids

Secondary Phenolic Compounds (metabolites) are more complex and believed to be responsible for the plant's respiratory systems and its ability to survive in the environment.

Secondary Phenolic Compounds include:
- Antioxidants
- Hydroxycinnamic Acids
- Hydroxybenzoic Acids
- Stilbenes
- Flavonoids
- Flavan-3-ols

Botanical Innovations GRAPEXT and APPEELEX range of products contain both primary and secondary phenolic compounds which provide added health and functional benefits to our products.

Botanical Innovations Extract GRAPEXT and APPEELEX contain Phenolic Compounds with the following potential Pharmacological Actions:

Antioxidants
- Anti-coagulants
- Anti-inflammatory Agents
- Anti-hypertensive Agents
- Anti-fungal Agents
- Anti-carcinogenic Agents
- Enzyme Inhibitors
- Anti-mutagenic Agents

Anti-Infective Agents
- Free Radical Scavengers
- Cholagogues and Choleretics
- Anti-Infective Agents
- Keratolytic Agents
- Anti-neoplastic Agents, Phytogenic
- Platelet Aggregation Inhibitors
- Protease Inhibitors
DATA SHEET

PRODUCT

GRAPEXT RS
FERMENTED RED GRAPE SEED EXTRACT

Differentiate your product range and product flavour and functional health profile with concentrated polyphenols, antioxidants and Vitamin C.

INGREDIENTS

Product Name: GRAPEXT RS
Fermented Grape Seed Extract
Botanical Name: Vitis Vinifera
CAS: 84929-27-1
INCI: Vitis Vinifera (Red grape) seed extract
Description: 100% Red Grape Seed Extract Ethanol and Water Extraction

PRODUCT

GRAPEX RS
Total Phenolic Content 10,000-50,000mg/L
Acidity 1-4%

CONCENTRATED NATURAL COMPOUNDS

GRAPEXT products contain the following highly concentrated natural compounds
Antioxidants: Capture oxygen delaying oxidation which may prevent or delay cell damage.
Polyphenols: 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.
Polyphenols found in GRAPEXT: Flavonoids, Anthocyanins, Resveratrol, Vitamin C and Vitamin E.

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GRAPEXT IS MADE WITH 100% AUSTRALIAN GRAPES
IT TAKES 100 kg GRAPES
50 g GRAPE SEED EXTRACT
PHENOLIC CONTENT
10,000-50,000 mg/L

MILD SWEET VINEGAR FLAVOUR
Turn your foods and beverages into super foods by adding GRAPEXT.

Applications
Sauces  Snacks
Marinades  Salad Dressings
Beverages  Prepared Meals
Deserts  Icecream
Bottle Under Own Brand

Origin  Australia
Shelf Life  Unopened 24 Months
MOQ  20 Litres
DATA SHEET
PRODUCT
GRAPEXT
FERMENTED RED GRAPE SEED EXTRACT

SPECIFICATIONS

GRAPEXT RS
Fermented Red Grape Seed Extract
Colour Light Brow Red to Deep Red
Total Polyphenol 10,000-50,000 m/L
Brix 15-30% Per 100 g
Energy 110 kg Per 100 ml
Protein < 1.0 g Per 100 ml
Saturated Fat < 0.1 g Per 100 ml
Carbohydrate Total < 7 g Per 100 ml
Sodium 3.2 mg
Soluble Complete
Soluble Complete
Acidity 1.5-4%

CREATE NEW FLAVOUR PROFILES WITH FUNCTIONAL HEALTH BENEFITS TO FOODS AND BEVERAGES WITH GRAPEXT Fermented Red Grape Seed Extract

GRAPEXT IS MADE WITH 100% AUSTRALIAN GRAPES IT TAKES 100 kg GRAPES 50 g GRAPE SEED EXTRACT

PACKAGING

5 Litre, 10 Litre, 20 Litre 50 Litre, 100 Litre, 200 Litre Drums, 1,000 Litre IBC

For orders over 1,000 Litres contact us to discuss your requirements

SHELF LIFE AND STORAGE

Shelf Life 2 years from date of manufacture
Store in cool dry environment below 25 degrees celsius. Refrigerate once open and use with 7 days of opening.

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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GRAPEXT
RED GRAPE SKIN FERMENTED LIQUID EXTRACT

Differentiate your product range and product flavour and functional health profile with concentrated antioxidants, polyphenols and resveratrol.

INGREDIENTS

Product Name: GRAPEXT
Red Grape Skin Fermented Liquid Extract

Botanical Name: Vitis Vinifera
CAS: 11029-12-2
INCI: Vitis Vinifera (red grape) Skin Extract
Description: 100% Red Grape Skin Extract
Ethanol and Water Extraction

GRAPEXT RANGE

GRAPEXT
Red Grape Skin Extract
Acidity 1.5-4%

CONCENTRATED NATURAL COMPOUNDS

GRAPEXT products contain the following highly concentrated natural compounds

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

Polyphenols: 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.

GRAPEXT White Grape Skin Extract contains:
Hydroxycinnamic acids: p-coumaric, caffeic, ferulic, Stilbenes; resveratrol, viniferins, Flavonols, quercetin, kaempferol, myricetin, Flavan-3-ols; catechin, epicatechin, epigallocatechin, proanthocyanidins, anthocyanins.

Turn your foods and beverages into super foods by adding GRAPEXT.

Applications
Sauces Snacks
Marinades Salad Dressings
Beverages Prepared Meals
Deserts Icecream
Private Label

Origin Australia
Shelf Life Unopened 24 Months
MOQ 20 Litres

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DATA SHEET

PRODUCT

GRAPEXT RSK
RED GRAPE SKIN FERMENTED EXTRACT

SPECIFICATIONS

GRAPEXT RSK
Red Grape Skin Fermented Extract

Colour  Golden to Brown
Soluble  Complete
Acidity  1.5-4%

Resveratrol falls into a broader class of phytochemicals called polyphenols which have strong antioxidant and anti-inflammatory properties. Resveratrol, which is most is thought to be one of the compounds responsible for the health benefits of a Mediterranean-style diet.

Test: Resveratrol, Test Method ARL-TM 170
Southern Cross Plant Science Analytical Research Laboratory March 2015.

PACKAGING

5 Litre, 10 Litre, 20 Litre 50 Litre, 100 Litre, 200 Litre Drums, 1,000 Litre IBC
For orders over 1,000 Litres contact us to discuss your requirements

SHELF LIFE AND STORAGE

Shelf Life 2 years from date of manufacture
Store in cool dry environment below 25 degrees celsius. Refrigerate once open and use with 7 days of opening.

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

DIFFERENTIATE AND CREATE
SUPER FOODS AND BEVERAGES
ADD GRAPEXT RSK

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DATA SHEET

PRODUCT
GRAPEXT WS
FERMENTED WHITE GRAPE SEED EXTRACT
Differentiate your product range and product flavour and functional health profile with concentrated polyphenols, antioxidants and Vitamin C.

INGREDIENTS
Product Name: GRAEXT WS
Fermented Grape Seed Extract
Botanical Name: Vitis Vinifera
CAS: 84929-27-1
INCI: Vitis Vinifera (white grape) seed extract
Description: 100% White Grape Seed Extract
Ethanol and Water Extraction

PRODUCT
GRAPEXT WS
Total Phenolic Content: 10,000-50,000 mg/L
Acidity 1.5-4%

CONCENTRATED NATURAL COMPOUNDS
GRAPEXT products contain the following highly concentrated natural compounds

Antioxidants: Capture oxygen delaying oxidation which may prevent or delay cell damage.
Polyphenols: 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.
Polyphenols found in GRAPEXT: Flavonoids, Anthocyanins, Resveratrol, Vitamin C and Vitamin E.

GRAPEXT IS MADE WITH 100% AUSTRALIAN GRAPES
IT TAKES 100 kg GRAPES
50 g GRAPE SEED EXTRACT
TOTAL PHENOLS
10,000-50,000 mg/L

Turn your foods and beverages into super foods by adding GRAPEXT.

Applications
Sauces
Snacks
Marinades
Salad Dressings
Beverages
Prepared Meals
Deserts
Icecream
Private Label

Origin
Australia

Shelf Life
Unopened 24 Months

MOQ
20 Litres

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**GRAPEXT WS**

**FERMENTED WHITE GRAPE SEED EXTRACT**

**SPECIFICATIONS**

- **GRAPEXT WS**
  - Fermented White Grape Seed Extract
  - Colour: Light Beige to Deep Amber
  - Total Polyphenol: 30,000-80,000 m/L
  - Brix: 15-30% Per 100 g
  - Energy: 110 kg Per 100 ml
  - Protein: < 1.0 g Per 100 ml
  - Saturated Fat: < 0.1 g Per 100 ml
  - Carbohydrate Total: < 7 g Per 100 ml
  - Sodium: 3.2 mg
  - Soluble: Complete
  - Soluble: Complete
  - Acidity: 1.5-4%

**CREATE NEW FLAVOUR PROFILES WITH FUNCTIONAL HEALTH BENEFITS TO FOODS AND BEVERAGES WITH GRAPEXT WS**

Fermented White Grape Seed Extract

**GRAPEXT IS MADE WITH 100% AUSTRALIAN GRAPES IT TAKES 100 kg GRAPES 50 g GRAPE SEED EXTRACT**

**PACKAGING**

- 5 Litre, 10 Litre, 20 Litre 50 Litre, 100 Litre, 200 Litre Drums, 1,000 Litre IBC

For orders over 1,000 Litres contact us to discuss your requirements

**SHELF LIFE AND STORAGE**

- Shelf Life 2 years from date of manufacture
- Store in cool dry environment below 25 degrees celcius. Refrigerate once open and use with 7 days of opening.

**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

GRAPEXT WSK
WHITE GRAPE SKIN FERMENTED LIQUID EXTRACT

Differentiate your product range and product flavour and functional health profile with concentrated antioxidants, polyphenols and resveratrol.

INGREDIENTS

Product Name: GRAPEXT WSK
White Grape Skin Fermented Liquid Extract
Botanical Name: Vitis Vinifera
CAS: 11029-12-2
INCI: Vitis Vinifera (white grape) Skin Extract
Description: 100% White Grape Skin Extract
Ethanol and Water Extraction

PRODUCT RANGE

GRAPEXT WSK
White Grape Skin Fermented Extract Acidity 1-4%

CONCENTRATED NATURAL COMPOUNDS

GRAPEXT products contain the following highly concentrated natural compounds

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

Polyphenols: 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.


Turn your foods and beverages into super foods by adding GRAPEXT.

Applications
Sauces
Marinades
Beverages
Deserts
Private Label

Origin
Australia

Shelf Life
Unopened 24 Months

MOQ
20 Litres

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DATA SHEET

PRODUCT

GRAPEXT WSK
WHITE GRAPE SKIN FERMENTED EXTRACT

SPECIFICATIONS

GRAPEXT WSK
White Grape Skin Fermented Extract

- Colour: Golden to Brown
- Soluble: Complete
- Acidity: 1.5-4%
- Concentrated Resveratrol

Resveratrol falls into a broader class of phytochemicals called polyphenols which have strong antioxidant and anti-inflammatory properties. Resveratrol, which is most is thought to be one of the compounds responsible for the health benefits of a Mediterranean-style diet.

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

PACKAGING

5 Litre, 10 Litre, 20 Litre 50 Litre, 100 Litre, 200 Litre Drums, 1,000 Litre IBC
For orders over 1,000 Litres contact us to discuss your requirements

SHELF LIFE AND STORAGE

Shelf Life 2 years from date of manufacture
Store in cool dry environment below 25 degrees celcius. Refrigerate once open and use with 7 days of opening.

Test: Resveratrol, Test Method ARL-TM 170
Sounern Cross Plant Science Analytical Research Laboratory March 2015.

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AUSTRALIAN FUNCTIONAL INGREDIENTS

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

DATA SHEET

PRODUCT

APPEELEX

FERMENTED APPLE SKIN EXTRACT

Differentiate your product range and product flavour and functional health profile with concentrated antioxidants, polyphenols.

INGREDIENTS

Product Name: APPEELEX
Fermented Apple Peel Extract
Botanical Name: Pyrus Malus (Apple) Peel Extract
INCI: Pyrus Malus Extract
CAS: 89957-84-3
Description: 100% Apple Peel Extract
Ethanol and Water Extraction

PRODUCT RANGE

APPEELEX VR
Apple Peel Extract Acidity 1.5-4%

CONCENTRATED NATURAL COMPOUNDS

APPEELEX products contain the following highly concentrated natural compounds

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

Polyphenols: 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.

APPLEX contains concentrated quercetin, triterpenoids, ursolic acid, vitamin A, Vitamin C and minerals

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APPEELEX APPLE PEEL EXTRACT CONCENTRATED ANTIOXIDANTS, POLYPHENOLS.

Turn your foods and beverages into super foods by adding APPEELEX.

Applications
Sauces  Snacks
Marinades  Salad Dressings
Beverages  Prepared Meals
Deserts  Icecream
Bottle Under Own Brand

Origin  Australia
Shelf Life  Unopened 24 Months
MOQ  20 Litres
AUSTRALIAN FUNCTIONAL INGREDIENTS
Plant Extracts-Naturally Fermented Fruits and Vinegars
Cold Pressed Oils-Essential Oils-Phenolic Rich Powders

DATA SHEET
PRODUCT
APPEELEX
FERMENTED APPLE SKIN EXTRACT

SPECIFICATIONS

APPELEX VR
Fermented Apple Skin Extract
- Colour: Light white to clear
- Aroma: Light Apple
- Soluble: Complete
- Acidity: 1.5-4%
- Concentrated: Vitamin C
- Concentrated: Polyphenol

PACKAGING
5 Litre, 10 Litre, 20 Litre 50 Litre, 100 Litre, 200 Litre Drums, 1,000 Litre IBC
For orders over 1,000 Litres contact us to discuss your requirements

SHELF LIFE AND STORAGE
Shelf Life 2 years from date of manufacture
Store in cool dry environment below 25 degrees celsius. Refrigerate once open and use with 7 days of opening.

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

ADD NEW FUNCTIONALITY TO FOODS AND BEVERAGES WITH APPEELEX
Fermented Apple Skin Extract
Mild Apple Aroma with Sweet Apple Vinegar Flavour

50 ml of APPEELEX contains the equivalent nutritional benefits of eating 100kg of apples.

January 2017. The information contained in this datasheet has been gathered from publically available source material and is intended to provide general information to readers. No therapeutic claim in relation to the product is intended. Whilst reasonable care has been taken in the preparation of this datasheet, General Industry Pty Ltd trading as Botanical Innovations is not responsible for any reliance readers place on the information in the datasheet and does not represent or warrant that the information in the datasheet is complete or accurate. Readers rely on the information in the datasheet at their own risk.

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AUSTRALIAN FUNCTIONAL INGREDIENTS

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

FERMENTED EXTRACTS

New Lightly Acidic Functional Ingredients that combine Flavour, Function and Health benefits

New Class of Extract with a vinegar base easy to use in a variety of applications
Functional Food and Beverages
Nuraceuticals and Supplements
Cosmetics

GRAPEXT RS
Fermented Red Grape Seed Extract

GRAPEXT RSK
Fermented Red Grape Skin Extract

GRAPEXT WS
Fermented White Grape Seed Extract

GRAPEXT WSK
Fermented White Grape Skin Extract

APPEELEX
Fermented Apple Peel Extract

Made in Australia with 100% Australian Ingredients

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