Kakadu plum is the most common name for this fruit, although it is found from the Kimberley to Darwin and in Queensland. Other names, depending on location, include gubinge, gabiny, kabiny, mardorr, murunga, bush plum, billygoat plum and salty plum.

The pale olive-green, ovoid fruit has a central wooden stone, similar to an immature olive, and is fibrous with a tart and bitter taste.

Kakadu plum is considered a gift of the Dreamtime by Aboriginal culture and has been an important bush food for millennia for people in northern Australia.

Traditionally, both the fruit and seed were eaten raw. The sap was roasted and the bark was boiled and used by Indigenous people to treat skin conditions and sores, or drunk as a tea for colds and flu.

Production is primarily wild harvest, and one of the key challenges for the industry is how to maintain profitable Indigenous involvement and ownership while also supporting significant growth in supply to take advantage of commercial market opportunities.

While Kakadu plum can be eaten fresh, these days it is primarily used as a value-added product in jams, preserves and sauces, as well as in sports drinks and beauty products including cleansers, body lotions, hand cream and lip balm.

The fruit contains the highest recorded level of natural vitamin C content globally, and also displays superior antioxidant properties, so there’s enormous potential for its use in dietary supplements and health foods.
Focus on:

Native foods R&D

Harvest is generally carried out by hand. The hot and humid conditions of the wet season, often in remote locations where roads may be impassable at times, can cause issues with the availability of labour.

Concerns about the sustainability of some practices following the initial surge in demand for Kakadu plum led to the development of a video demonstrating how to pick it ‘the right way’.

For over a decade Kimberley Training Institute has been promoting cultivation via practical training as a way to maximise the involvement of Aboriginal communities in a culturally appropriate commercial enterprise. A model of “enrichment planting” has been trialled, where trees are planted within existing areas of bush with minimal clearing and therefore supposedly reducing the impact on biodiversity and soil.

One Kakadu plum enterprise has reported a significant increase in the quality and quantity of fruit grown on land managed according to traditional Indigenous practices.

Storage

Kakadu plum needs to be frozen within 24 hours of harvest if it’s going to be used for its functional properties, to maintain its size and quality.

Food uses

Given its fibrous consistency and sour taste, Kakadu plum is largely used as an ingredient in jams, sauces and juices. However, it is also available in fresh, powdered or frozen puree form.

Kakadu plum is also increasingly dried and ground into a powder for use in dietary supplements and health foods in order to capture its health properties.

Demand has been steadily increasing, with the introduction and growth of product lines in mainstream supermarkets and increasing sales of Australian native food products in the tourism and food service industries.

It is important not to eat too many of the seeds, as they contain some toxins.

Health benefits

Kakadu plum has the highest recorded level of natural vitamin C content of any plant in the world – more than 100 times that of oranges.

It also displays superior antioxidant properties, containing both water-and oil-soluble antioxidants which are often low in common fruits and vegetables. Kakadu plum has five times higher anti-oxidant capability than the blueberry, which is renowned worldwide as the ‘health-promoting fruit’.

Antioxidants are believed to hold a number of benefits for human health, potentially preventing and delaying diseases such as Alzheimer’s disease, autoimmune and cardiovascular disease, cancer, and diabetes.

The fruit contains vitamin E, lutein (a compound that plays an important role in eye health and wellbeing), folate, zinc, magnesium and calcium.

Kakadu plum also has a high potassium:sodium ratio, which may assist to develop foods to reduce hypertension.

“Aroma of stewed apples and pears; some cooked citrus, pickled and fermented notes...

A stewed apple and pear aroma, cooked citrus and a floral-musk note. Taste is sour with some astringency...
Other uses

There is an enormous potential market for Kakadu Plum because of its functional properties, although further research and development is necessary and it would also require a much larger and more stable supply.

There is interest from major international health and cosmetic companies and it is already found in beauty products including cleansers, body lotions, hand cream and lip balm.

However, the export of seeds and germplasm in the past has created unease about the potential for product development, market share and profits to be lost to overseas enterprises, especially at the expense of Indigenous Australians.

For more information

This fact sheet is one of a series summarising Native Foods R&D from 2007 to 2012. In a partnership between government and industry, the Rural Industries Research and Development Corporation (RIRDC) and Australian Native Food Industry Limited (ANFIL) are working towards an innovative, profitable and sustainable Native Foods industry.

Australian Native Food Industry Limited (ANFIL) was formed in 2006 and is the peak national body which represents all interests in the rapidly growing Australian native food industry. ANFIL has taken the lead in working with industry, governments and other organisations to determine and prioritise research and market development strategies to progress the industry.

web: www.anfil.org.au
email: info@anfil.org.au

Australian Native Food Industry Ltd
3866 Channel Highway
Woodbridge Tasmania 7162
Australia

The Rural Industries Research & Development Corporation (RIRDC) is a statutory authority established to work with industry to invest in research and development for a more profitable, sustainable and dynamic rural sector.

Rural Industries Research & Development Corporation
Phone: 02 6271 4100
email: rirdc@rirdc.gov.au
web: www.rirdc.gov.au

Disclaimer: Whilst every care has been taken in preparing this article, neither RIRDC nor the authors accept any responsibility or liability for decisions or actions taken as a result of any data, information, statement or advice, expressed or implied, contained in this article. Readers should make their own detailed inquiries and obtain professional advice before making any commercial decisions based on information contained in this article.