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A Comprehensive Examination About Guava: Assessment of Guava's Medical Effects

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Abstract

Guava (*Psidium guajava* L.) is a tropical fruit indigenous to region of South America. This plant mainly relates to the Myrtaceae family as well-known plant. Guava is a more nutritious alternative since, unlike the rest of the fruit, it is not chemically processed. Guava is widely known for its culinary value. Around the world, it has commonly been utilized as a homoeopathic medicine to cure a wide range of illnesses. Tannins, quercetin, ursolic acid, saponins, lectins, beta-sitosterol, guajanoic acid, carotenoid, amritoside and uvanol are some of the useful chemical constituents in guava. Among its many health benefits, guava has antiseptic, anti-viral, against tussive, against inflammation, against cancer, against hyperglycaemia, as well as anti-oxidant qualities. Approximately 150 guava species are found worldwide, with the common guava, peer guava, cattley guavas being most popular ones. According to guava's nutrient profile, it is high in specific elements, such as protein, carbohydrates, minerals and vitamins, which improve the well-being of people. Guava includes several pharmacologically functional elements that are in charge of a range of physiochemical actions, according to multiple research projects, effects that are covered in more detail in the review, including antipyretic medication, cardiogenic, liver protective, immune-modulation, spasmolytic, and muscular actions.

Keywords: Guava, hepatoprotective, varsities, products, growth, photosynthesis

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Introduction

Vitamins and minerals are abundant in fruits. With a yearly output of roughly 45 milli tonnes, India ranks as the second-largest fruit producer. Guava constitutes amongst best significant and extensively grown fruit crops (Sau *et al.*, 2023). It is thought to be among the most beneficial forms of vitamin C. It is accessible in the cold and wet seasons. Twenty to twenty-five percent of guava fruit spoils before it reaches consumer hands as a result of faulty storage, shipping, and processing. Guava's inexpensive price makes it the "apple of the poor." The southern region of Central America and Mexico is where it first appeared.

Guava is identified by the scientific name of *Psidium guajava* L. There are roughly 150+ guava species in the globe. It consists of high dietary fibres, Vit. C and A, Vitamin B9, and aggregates including K(potassium), Cu(copper), Mn(manganese), and many more because of its nutritional makeup . It was first grown in India in the seventeenth century. Numerous types are grown in various Indian states, including Lucknow-49, Allahabad Safeda, Chittidar, Nagpur seedless, Banglore, Dharwar, ArkaAmulya, Harija, Hafshi etc.There are numerous guava-based goods on the market, including squashes, ice cream, yogurt and nectars, jellies, and juices (Guruvayoorappan *et al.*, 2015). In addition to actuality consumed freshly, it can also be eaten like sweetened dish like its paste. It is generally grown all over the subtropics and tropics along with India viz, Madhya Pradesh, Maharashtra, Tamil Nadu, Uttar Pradesh, Orissa, West Bengal, Kerala, Karnataka as well as some extra states

Common guavas are grown extensively in Pakistan because of their deliciousness and produce between 100 to 300 fruits per tree. Guava tropical fruit that ripens quickly and is regarded as the most delicate fruit. (Hussain *et al.*, 2021) Therefore, guava fruit can be stored at room temperature for two to three days. The distinct musky flavour of guava fruit is diminished by any processing (Kumar *et al.*, 2021). Guava fruit typically weighs between 150 to 250 grams. Typically spherical in shape, the fruit has a diameter of 3 to 10 centimetres (Tanwar *et al.*, 2014).



Fig1. Guava tree Taxonomy of Guava:(Naseer *et al.*, 2018) *J. Sci. Innov. Nat. Earth*

Psidium guajava.
Plantae-Plants
Tracheobionta Vascular plants
Magnoliophyta Flower Plants
Magnoliopsida Dicotlydonous
Rosidae
Myrtales
Myrtaceae
Myrtoideae
Psidium
Psidium guajava

Nutritional composition and values of guava (200g): (Joseph *et al.*,2011 and Barbalho *et al.*, 2012)

Nutritional component	Values
Energy	570g
Carbohydrates	28.64g
Sugars	17.84g
Dietary fiber	10.8g
Fat	1.9g
Protein	2.55g
Vitamin A equivalent	62microgram
Beta-carotene	748microgram
Thiamin(B1)	1.34mg
Riboflavin(B2)	0.08mg
Niacin(B3)	2.168mg
Pantotheric acid	0.902mg
Vitamin(B6)	0.22mg
Folate(B9)	98microgram
Vitamin C	456.6mg
Vitamin K	4.4 microgram
Iron	0.52mg
Magnesium	44mg
Manganese	0.30g
Phosphorus	80mg
Potassium	834mg
Sodium	4mg
Zinc	0.46mg
Lycopene	10408 micrograms

Properties of Guava in treatment of Disease: (Mathpal *et al.*,2022 and Kumar *et al.*, 2021).

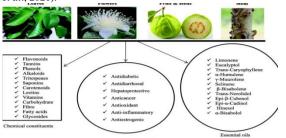
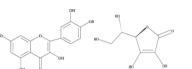


Fig. 2 Biological Activities of Guava



Advantages and applications of guava:(Das et al., 2019).

1. As Guava's leaves and the fruit itself are high in Fiber, which can lead to treat constipation. 1. Assatives Subsect of the transmission of Fiber and food content, which is useful for preventing and treating dysentery and dermattils. 2.00 grams of the fruit of guava is predicted to supply 72 grams of Fiber from diet. This fruit has the highest amounts of Vit. C in contrast amongst other fruits, with only a single guava providing around twelve percent of the daily energy requirement, making it extremely beneficial for digestion. (Raj et al., 2023). 2. Diseases Periodontal disease is primarily brought on by tooth plaque, that, figoned, leads to inflammation and periodontal disease. Guava contains a high concentration of quercetin, which was previously shown to have great antimicrobial properties towards illnesses like these. In resistant microbes, the proposed action of Quercetin in periodontal disease is the wall of cells disruption and inhibition of important proteins by generating persistent interactions with the proteins (Raj et al., 2023). The extract of guava is effective towards oral infections without allering the dental cavity's homeostasis as well as prevents microorganisms attaching to dental cavities, so it stops the plaque and growing anymore. Gun leaking is the 2nd most common concern affecting the oral cavity (the disease). Guava contains a significant amount of the antioxidant vitamin C, with some sources stating it has approximately 4 times the vitamin C that is found in an orange, resulting in an ideal choice for treating scurvy(Kapoor et al., 2022). A a consequence, guava is an excellent rem		id applic	
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	Nervous System 6. Anti- Cancerous property: 7. Anti-		 steaming cure for fever (Malaria) (Whistler <i>et al.</i>, 1985) Indeed, the primary ethnotherapeutic application in Africa is said to be for dengue. The laboratory-based anti-plasmodial experiment used a chloroquine-sensitive malaria parasite. An infusion of guava tree leaves is used to treat spasms, seizures and spasm and even cerebral disease. The tincture was used to treat convulsions in youngsters by massaging it into their Conferring to clinical trials on rats conducted by the Biomedical Research Laboratory, eating guava fruits as well as leaves without the peel might lower blood sugar levels. The extract is used to treat end therapy. Cancer of breast and prostatic adenocarcinoma respond the greatest of altogether. While guava is sliced, the reddish part consists additional lycopene in comparison to other varieties (Okpashi <i>et al.</i>, 2023). Lycopene functions by scavenge harmful free radicals and inhibiting any additional ones from generating (Cuevas-Cianca <i>et al.</i>, 2023). The extract of guava in ethyl acetate is being shown to
1	Nervous System 6. Anti- Cancerous property: 7. Anti- inflammatory		 steaming cure for fever (Malaria) (Whistler <i>et al.</i>, 1985) Indeed, the primary ethnotherapeutic application in Africa is said to be for dengue. The laboratory-based anti-plasmodial experiment used a chloroquine-sensitive malaria parasite. An infusion of guava tree leaves is used to treat spasms, seizures and spasm and even cerebral disease. The tincture was used to treat convulsions in youngsters by massaging it into their Conferring to clinical trials on rats conducted by the Biomedical Research Laboratory, eating guava fruits as well as leaves without the peel might lower blood sugar levels. The extract is used to treat epilepsy and chorea, which are deteriorating CNS conditions categorized by discontinuous body movement as well as muscles (Elias <i>et al.</i>, 2014) Lycopene, a natural anti-oxidant present in it, serves key role in avoidance to prevent cancer and therapy. Cancer of breast and prostatic adenocarcinoma respond the greatest of altogether. While guava is sliced, the reddish part consists additional lycopene in comparison to other varieties (Okpashi <i>et al.</i>, 2023). The extract of guava in ethyl acetate is being shown to reduce pathogen colonization and nodule development
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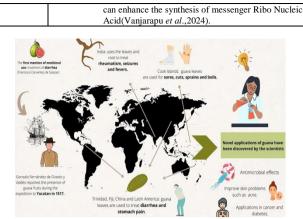


Fig. 3 Ethnomedicinal application in Mexico (Vanjarapu et al., 2024). Guava Fruit: Value addition commercial Products (Bolívar-Anillo *et al.*, 2024).

	2024).			
_	Value	Diagram		
	added			
	products			
	Guava's	>	It is made by mixing the pulp of	
	Pulp		guava with the pulp from different	Rašanand
	-		fruits, and it can serve as the	GUAVA PULP
			foundation for a variety of dishes.	and and
		≻	In order to prepare guava pulp, many	
			guava cultivars are investigated.	See Careford 1996 20 De (1271 Aur 755 est 7
		>	(Ramsis <i>et al.</i> , 2024). Following a period of storage at low	
		-	temperature for approximately 35 and	
			60 days, the pulp of different type was	
			examined for various characteristics,	
			including acidity, vitamin C, and total	
			solids that are soluble (TSS).(Cid del	
			Prado-Vera et al., 2022).	
	Guava's	≻	At the conclusion of the manufacturing	ST 12
	Pomace		process, a form of prepared waste	A REAL
			known as guava pomace is supplied.	POHLCE PONDER PT DELL
		≻	Fruit of guava were utilized for	FROM
			obtaining its juice. Pomace of Guava was dried using console tray drier that	YUMMY BUN
			precisely regulates the perfect	
			temperature for drying lies in range of	
			20 and 150 °C. (Morais-Braga <i>et al.</i> ,	
			2016).	
		\succ	Guava pomace can be dried at 65 °C	
			because of its high moisture content.	
			(Kumari et al., 2017).	
	Guava's	≻	A leathery coating of guava's purée is	Gazya Fruit Leather
	Leather		dehydrated to create guava leatherette. Either raw or prepared into the	es taxini ide elli di geogé activite in textes el unde med bible comade.
			condiment, leathers can be consumed	
			(Bhattacherjee <i>et al.</i> , 2021).	
		\succ	Compared to other leathers, leather of	14
			guava has a higher protein and lipid	IBCA
			content. Along with better	
			compositional qualities, it has a	
			considerably stronger fruity scent and	
	C11' 6	~	is more aesthetically pleasing overall.	
	Slices of	>	It includes parched slices of guava and these are made from strong, mature	1820
	Dehydrated		fruits of guava. (Ahmad <i>et al.</i> , 2008)	God Bar
	guava	≻	Guava fruits were sliced to thick slices	
			of 1.5 cm, corked, and then submerged	
			to different varying meditations of a	
			glucose molasses different lengths of	and the second
			time and temperatures to create osmo-	GUAVA SLICE DRIED FRUIT
	~ •		dried guava pieces (Bates et al., 2001).	Survivi SEICE DIGED INGUT
	Guava's	>	Guava puree can be used to make	A D
	Juice		guava juice. The guava fruits are either diluted with water and then	Natura
1			the pulp is filtered, or the pulp and	
l			juice is extracted by pressing them	Gunun
			via an automatic filter pressing. (
I			Bell <i>et al.</i> , 2012)	1
I		≻	Since the juice is usually creamy,	2
I			pectic enzymes must be applied in	PACKS
l			order to create clearer, easier-to-	Solin stransmit is solar
			filter juice (Sagar et al., 2005).	

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Guava'	٨	A beverage made from guava fruit is	1 Section	5.	Arka Mridula	40-42 days
Nectar		called guava nectar. Typically, fresh		6.	Black guava	46-48 days
		guava fruits are crushed and the		7.	Behat Coconut	43-45 days
		resulting guava pulp is used to make a	Contraction of the second	8.	Lalit	51-53 days
		flavorful, rich, and sweet beverage.	Rus	9.	p. pumilum	48-50 days
	≻	Guava nectar is especially well-liked		10.	L-49	46-48 days.
		in tropical nations and can be used for		11.	Pant Prabhat	45-47 days
		a number of purposes, from blended	Ne Y	Hybrid (Parents c H1	rossed) Fruit phenotypic characters Hybrid (Parer H6	its crossed) Fruit phenotypic characters
		drinks to pure drinking. Many retailers carry it, and it's usually pasteurized		Allahabad Safeda G-1	× CISH	Jlahabad
		and shelf-stabilized (Kumari <i>et al.</i> ,		0-1	Sarda	
		2017).		H2	H7	
Guava'	8	Skim milk was boiled, cooled in an	THAN	CISH G-1 × 1716	CISH G-1× L Guava)	-49 (Sardar
Shrikhand	ŕ	automated pasteurized to 30 °C, and			Cuava)	
Shrikhand		then Lactic Acid Bacteria (LAB)	unusure N	H3		
		appetiser culture was added and well	VINAY'S NEW PRODUCT	CISH G-4 (Shwet		G-1
		mixed with help of mixer to form	Red Gana		(the st)	Carlos Carlos
		Shrikhand.	Sallad /	H4		
	\succ	Throughout the 8-12-hour incubation		CISH G-4 (Shwet		sian Guava
		period, temperatures of the prior-		Malaysian Guava	Sold and and	6.8 Htt
		sterilization container of loading was				
		maintained to 37 °C. Using a fresh,				
		damp muslin towel, the curd was			Fig.4 Cross Hybridizatio	n of Guava Plant
		transferred to a different vessel once it			Conclusi	on
	\triangleright	had fully set (Taylor <i>et al.</i> , 2004). Either by hand or by machine, this		Psidium	guajava L (Guava)., is renown	ned surrounding the globe to its
	^	chakka has been thoroughly mixed				it guava have been placed on this
		with sugar and guava powdered to get				the significant quantities of folic
		a uniform consistency (Galanakis <i>et</i>				otassium. Some losses following
		al., 2019).			·	ndling, shipping, and processing,
	~		1	nui vest na	appende as a result of faulty fla	maning, simpping, and processing,

Typically, it is stored in a refrigerator and wrapped in polystyrene containers.

Guava's Utilization to treat diseases as per Nation: (Sau et al., 2023).

Nation		Utility			
Amazon		Dysentery, diarrhoea, Stomach ache, Menstrual disorder, vertigo			
Brazil		Cholera, digestive problem, gastric insufficiency, Ulcers, larynx			
		inflammation, dermatitis and discharge from vagina.			
India		Intellectual sicknesses, Epilepsy, nephron inflammation, Icterus,			
		childbirth			
Haiti		Piles, skin sores, sore throat, dysentery, scabies, wounds.			
Malaysia		Dermatitis, diarrhoea, hysteria, menstrual problems			
Peru		Cough, conjunctivitis, digestive problem, gout, vaginal discharge,			
		vomiting.			
Philippines		Sores, wounds, as an astringent.			
Guava's Flowering Period:(Hinwar e			2013 and Gavhane et al., 2022)		
S no.		Genetic composition	Flowering period		
1.		Arka Amulya	49-51 days		
2.		Hafsi red	38-40 days		
3.		Hissar surkha	50-52days		
4.		Allahabad safeda	47-49 days		

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with 20 - 25% of the guava spoiling before it reached consumers. Guava

goods such nectar of guava leather of guava, and many more are very

essential. The produced goods tasted fantastic, had a high energy content, retained their initial fruit flavor, and were appropriate to consume. Guava also has pharmacological effects were shown to help to cure variety of ailments. Numerous research and published literature have shown that it possesses strong anti-oxidants, anti-parasitic, antiviral, anti-inflammatory,

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