

Accession No. 618

IC No.: 382306

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Mudimayal, Rangareddy,
Andhra Pradesh

Date of plantation: July-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	70.31
2	Bark Nature	Rough	26	MRC (%)	66.49
3	Bark Colour	Grey	27	Stomata /mm ²	207.58
4	Phyllotaxy	Opposite	28	Stomata length (μm)	27.567
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	13.067
6	Leaf Shape	Lanceolate	30	Stomata pore length (μm)	19.78
7	Leaf Apex	Acute	31	Stomata pore width (μm)	6.267
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	10.433
9	Young Leaf Colour	Dark Copper Red	33	Upper epidermis thickness (μm)	24.153
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	144.863
11	Mature Leaf colour	Green	35	Parenchyma thickness (μm)	177.09
12	Young Leaf Pubescence	Glabrous	36	Lower epidermis thickness (μm)	16.08
13	Number of Glands	2	37	No. of chloroplasts	9
14	Position of Glands	Opposite	38	Total thickness(μm)	372.62
15	Leaf Length (cm)	11.983	39	Palisade: Parenchyma	0.818
16	Leaf Width (cm)	4.4	40	Chlorophyll a (mg/g)	1.184
17	Petiole Length (cm)	0.767	41	Chlorophyll b (mg/g)	0.711
18	Leaf Length: petiole length	15.63	42	Chlorophyll a/b	1.666
19	Leaf Weight	2.953	43	total Chlorophyll (mg/g)	1.956
20	Petiole Weight	0.051	44	Phenol (μg/mg)	1.607
21	Leaf weight: Petiole Weight	59.45	45	Reducing sugar (μg/mg)	7.783
22	Lamina weight (gm)	2.902	46	Non-reducing sugar (μg/mg)	6.34
23	Laminar Index (%)	98.254	47	Proline (μg/g)	61.683
24	Internodal Distance(cm)	2.23	48	Protein (mg/g)	24.11