

Accession No. 504

IC No.: 410749

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Mudimayal, Rangareddy,AP

Date of plantation: June-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	66.837
2	Bark Nature	Rough	26	MRC (%)	65.637
3	Bark Colour	Grey	27	Stomata /mm ²	435.117
4	Phyllotaxy	Opposite	28	Stomata length (μm)	27.437
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	16.303
6	Leaf Shape	Lanceolate	30	Stomata pore length (μm)	15.247
7	Leaf Apex	Acute	31	Stomata pore width (μm)	4.603
8	Leaf Margin	Entire	32	Cuticle thickness(μm)	10.47
9	Young Leaf Colour	Dark Copper Red	33	Upper epidermis thickness (μm)	28.423
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	144.983
11	Mature Leaf colour	Pale Green	35	Parenchyma thickness (μm)	201.357
12	Young Leaf Pubescence	Moderate	36	Lower epidermis thickness (μm)	32.303
13	Number of Glands	2	37	No. of chloroplasts	8.666
14	Position of Glands	Alternate	38	Total thickness(μm)	417.537
15	Leaf Length (cm)	13.767	39	Palisade: Parenchyma	0.72
16	Leaf Width (cm)	5.533	40	Chlorophyll a (mg/g)	1.697
17	Petiole Length (cm)	0.77	41	Chlorophyll b (mg/g)	1.247
18	Leaf Length: petiole length	17.879	42	Chlorophyll a/b	1.361
19	Leaf Weight	4.34	43	total Chlorophyll (mg/g)	2.977
20	Petiole Weight	0.042	44	Phenol (μg/mg)	0.713
21	Leaf weight: Petiole Weight	102.741	45	Reducing sugar (μg/mg)	9.9
22	Lamina weight (gm)	4.298	46	Non-reducing sugar (μg/mg)	7.467
23	Laminar Index (%)	99.025	47	Proline (μg/g)	84.25
24	Internodal Distance(cm)	2.163	48	Protein (mg/g)	13.633