

Accession No. 432

IC No.: 382303

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Mudimayal, Rangareddy, AP

Date of plantation: Aug-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	65.107
2	Bark Nature	Rough	26	MRC (%)	63.573
3	Bark Colour	Grey	27	Stomata /mm ²	269.317
4	Phyllotaxy	Opposite	28	Stomata length (μm)	30.833
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	14.633
6	Leaf Shape	Lanceolate	30	Stomata pore length (μm)	18.78
7	Leaf Apex	Acute	31	Stomata pore width (μm)	4.29
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	10.477
9	Young Leaf Colour	Dark Copper Red	33	Upper epidermis thickness (μm)	17.697
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	136.83
11	Mature Leaf colour	Green	35	Parenchyma thickness (μm)	177.077
12	Young Leaf Pubescence	Glabrous	36	Lower epidermis thickness (μm)	16.08
13	Number of Glands	2	37	No. of chloroplasts	8
14	Position of Glands	Opposite	38	Total thickness(μm)	362.19
15	Leaf Length (cm)	14.167	39	Palisade: Parenchyma	0.773
16	Leaf Width (cm)	5.367	40	Chlorophyll a (mg/g)	1.538
17	Petiole Length (cm)	0.733	41	Chlorophyll b (mg/g)	1.079
18	Leaf Length: petiole length	19.318	42	Chlorophyll a/b	1.43
19	Leaf Weight	3.16	43	total Chlorophyll (mg/g)	2.628
20	Petiole Weight	0.068	44	Phenol (μg/mg)	1.507
21	Leaf weight: Petiole Weight	46.824	45	Reducing sugar (μg/mg)	9.12
22	Lamina weight (gm)	3.092	46	Non-reducing sugar (μg/mg)	8.617
23	Laminar Index (%)	97.86	47	Proline (μg/g)	67.233
24	Internodal Distance(cm)	1.83	48	Protein (mg/g)	17.35