

Accession No. 515

IC No.: 560452

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Parampurva, Banda,
Uttar Pradesh

Date of plantation: June-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	75.877
2	Bark Nature	Rough	26	MRC (%)	69.103
3	Bark Colour	Dark Grey	27	Stomata /mm ²	406.58
4	Phyllotaxy	Opposite	28	Stomata length (μm)	27.467
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	15.033
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	19.78
7	Leaf Apex	Mucronate	31	Stomata pore width (μm)	6.733
8	Leaf Margin	Sinuate	32	Cuticle thickness(μm)	14.523
9	Young Leaf Colour	Moderate Copper Red	33	Upper epidermis thickness (μm)	17.723
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	144.9
11	Mature Leaf colour	Dark Green	35	Parenchyma thickness (μm)	169.077
12	Young Leaf Pubescence	Sparse	36	Lower epidermis thickness (μm)	17.7
13	Number of Glands	2	37	No. of chloroplasts	8
14	Position of Glands	Alternate	38	Total thickness(μm)	400.067
15	Leaf Length (cm)	14.617	39	Palisade: Parenchyma	0.955
16	Leaf Width (cm)	5.567	40	Chlorophyll a (mg/g)	1.454
17	Petiole Length (cm)	0.683	41	Chlorophyll b (mg/g)	0.624
18	Leaf Length: petiole length	21.39	42	Chlorophyll a/b	2.332
19	Leaf Weight	2.64	43	total Chlorophyll (mg/g)	2.21
20	Petiole Weight	0.052	44	Phenol (μg/mg)	0.553
21	Leaf weight: Petiole Weight	50.845	45	Reducing sugar (μg/mg)	9.473
22	Lamina weight (gm)	2.588	46	Non-reducing sugar (μg/mg)	6.077
23	Laminar Index (%)	98.031	47	Proline (μg/g)	71.117
24	Internodal Distance(cm)	2.05	48	Protein (mg/g)	14.883