

Accession No. 116

IC No.: 560439

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Wahnala, Jhansi,

UttarPradesh

Date of plantation: July-Aug 2001



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	68.54
2	Bark Nature	Rough	26	MRC (%)	67.397
3	Bark Colour	Dark Grey	27	Stomata /mm ²	327.82
4	Phyllotaxy	Opposite	28	Stomata length (μm)	26.867
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	15.367
6	Leaf Shape	Oblique	30	Stomata pore length (μm)	16.347
7	Leaf Apex	Acute	31	Stomata pore width (μm)	4.923
8	Leaf Margin	Dentate	32	Cuticle thickness(μm)	6.283
9	Young Leaf Colour	Moderate Copper Red	33	Upper epidermis thickness (μm)	18.937
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	113.823
11	Mature Leaf colour	Pale Green	35	Parenchyma thickness (μm)	126.477
12	Young Leaf Pubescence	Sparse	36	Lower epidermis thickness (μm)	12.627
13	Number of Glands	2	37	No. of chloroplasts	7.333
14	Position of Glands	Alternate	38	Total thickness(μm)	278.15
15	Leaf Length (cm)	15.067	39	Palisade: Parenchyma	0.9
16	Leaf Width (cm)	3.667	40	Chlorophyll a (mg/g)	0.8
17	Petiole Length (cm)	0.4	41	Chlorophyll b (mg/g)	0.67
18	Leaf Length: petiole length	37.667	42	Chlorophyll a/b	1.195
19	Leaf Weight	4.377	43	total Chlorophyll (mg/g)	1.473
20	Petiole Weight	0.079	44	Phenol (μg/mg)	1.133
21	Leaf weight: Petiole Weight	55.685	45	Reducing sugar (μg/mg)	6.4
22	Lamina weight (gm)	4.298	46	Non-reducing sugar (μg/mg)	10.377
23	Laminar Index (%)	98.202	47	Proline (μg/g)	24.607
24	Internodal Distance(cm)	2.527	48	Protein (mg/g)	20.463