

Accession No. 622

IC No.: 382333

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Dehradun(Uttarakhand)

Date of plantation: July-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	64.57
2	Bark Nature	Rough	26	MRC (%)	61.883
3	Bark Colour	Dark Brown	27	Stomata /mm ²	507.97
4	Phyllotaxy	Opposite	28	Stomata length (μm)	27.167
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	12.367
6	Leaf Shape	Elliptical	30	Stomata pore length (μm)	13.947
7	Leaf Apex	Mucronate	31	Stomata pore width (μm)	5.96
8	Leaf Margin	Crenate	32	Cuticle thickness(μm)	14.45
9	Young Leaf Colour	Light Copper Red	33	Upper epidermis thickness (μm)	20.113
10	Young Leaf midrib Colour	Green	34	Palisade thickness (μm)	128.797
11	Mature Leaf colour	Pale Green	35	Parenchyma thickness (μm)	177.08
12	Young Leaf Pubescence	Glabrous	36	Lower epidermis thickness (μm)	16.107
13	Number of Glands	2	37	No. of chloroplasts	8
14	Position of Glands	Opposite	38	Total thickness(μm)	356.547
15	Leaf Length (cm)	14.423	39	Palisade: Parenchyma	0.727
16	Leaf Width (cm)	7.467	40	Chlorophyll a (mg/g)	0.821
17	Petiole Length (cm)	0.717	41	Chlorophyll b (mg/g)	0.55
18	Leaf Length: petiole length	20.126	42	Chlorophyll a/b	1.492
19	Leaf Weight	5.26	43	total Chlorophyll (mg/g)	1.393
20	Petiole Weight	0.082	44	Phenol (μg/mg)	4.573
21	Leaf weight: Petiole Weight	64.237	45	Reducing sugar (μg/mg)	6.253
22	Lamina weight (gm)	5.178	46	Non-reducing sugar (μg/mg)	12.377
23	Laminar Index (%)	98.441	47	Proline (μg/g)	31.683
24	Internodal Distance(cm)	1.76	48	Protein (mg/g)	20.867