

Accession No. 435

IC No.: 410837

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Karnprayag, Chamoli,
Uttarakhand

Date of plantation: Aug-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	67.97
2	Bark Nature	Rough	26	MRC (%)	66.693
3	Bark Colour	Grey	27	Stomata /mm ²	594.21
4	Phyllotaxy	Opposite	28	Stomata length (μm)	26.467
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	17.367
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	16.333
7	Leaf Apex	Acute	31	Stomata pore width (μm)	6.99
8	Leaf Margin	Repend	32	Cuticle thickness(μm)	16.123
9	Young Leaf Colour	Moderate Copper Red	33	Upper epidermis thickness (μm)	21.707
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	152.927
11	Mature Leaf colour	Dark Green	35	Parenchyma thickness (μm)	185.137
12	Young Leaf Pubescence	Sparse	36	Lower epidermis thickness (μm)	28.167
13	Number of Glands	2	37	No. of chloroplasts	8.333
14	Position of Glands	Alternate	38	Total thickness(μm)	404.06
15	Leaf Length (cm)	14.9	39	Palisade: Parenchyma	0.826
16	Leaf Width (cm)	5.233	40	Chlorophyll a (mg/g)	1.396
17	Petiole Length (cm)	0.667	41	Chlorophyll b (mg/g)	1.037
18	Leaf Length: petiole length	22.35	42	Chlorophyll a/b	1.349
19	Leaf Weight	3.453	43	total Chlorophyll (mg/g)	2.438
20	Petiole Weight	0.047	44	Phenol (μg/mg)	1.387
21	Leaf weight: Petiole Weight	74.012	45	Reducing sugar (μg/mg)	12.033
22	Lamina weight (gm)	3.407	46	Non-reducing sugar (μg/mg)	5.583
23	Laminar Index (%)	98.649	47	Proline (μg/g)	65.96
24	Internodal Distance(cm)	1.5	48	Protein (mg/g)	35.95