

Accession No. 442

IC No.: 410838

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Pipalpan, Pauri garhwal,
Uttarakhand

Date of plantation: Aug-2002



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	65.047
2	Bark Nature	Rough	26	MRC (%)	63.67
3	Bark Colour	Dark Brown	27	Stomata /mm ²	207.217
4	Phyllotaxy	Opposite	28	Stomata length (μm)	27.7
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	15.667
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	14.6
7	Leaf Apex	Mucronate	31	Stomata pore width (μm)	4.57
8	Leaf Margin	Sinuate	32	Cuticle thickness(μm)	10.46
9	Young Leaf Colour	Light Copper Red	33	Upper epidermis thickness (μm)	24.143
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	152.927
11	Mature Leaf colour	Green	35	Parenchyma thickness (μm)	177.073
12	Young Leaf Pubescence	Sparse	36	Lower epidermis thickness (μm)	24.12
13	Number of Glands	2	37	No. of chloroplasts	9.333
14	Position of Glands	Opposite	38	Total thickness(μm)	388.723
15	Leaf Length (cm)	11.32	39	Palisade: Parenchyma	0.864
16	Leaf Width (cm)	4.2	40	Chlorophyll a (mg/g)	1.128
17	Petiole Length (cm)	0.3	41	Chlorophyll b (mg/g)	0.819
18	Leaf Length: petiole length	37.733	42	Chlorophyll a/b	1.378
19	Leaf Weight	3.73	43	total Chlorophyll (mg/g)	1.957
20	Petiole Weight	0.045	44	Phenol (μg/mg)	1.88
21	Leaf weight: Petiole Weight	83.958	45	Reducing sugar (μg/mg)	8.24
22	Lamina weight (gm)	3.685	46	Non-reducing sugar (μg/mg)	5.35
23	Laminar Index (%)	98.795	47	Proline (μg/g)	50.117
24	Internodal Distance(cm)	1.813	48	Protein (mg/g)	30.09