

Accession No. 533

IC No.: 560460

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Robertsganj, Sonebhadra,
UttarPradesh

Date of plantation: June-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Spreading	25	Moisture (%)	65.17
2	Bark Nature	Rough	26	MRC (%)	63.757
3	Bark Colour	Dark Brown	27	Stomata /mm ²	482.517
4	Phyllotaxy	Opposite	28	Stomata length (μm)	21.81
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	14.2
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	15.75
7	Leaf Apex	Mucronate	31	Stomata pore width (μm)	5.313
8	Leaf Margin	Repend	32	Cuticle thickness(μm)	14.43
9	Young Leaf Colour	Dark Copper Red	33	Upper epidermis thickness (μm)	17.897
10	Young Leaf midrib Colour	Green	34	Palisade thickness (μm)	161.187
11	Mature Leaf colour	Dark Green	35	Parenchyma thickness (μm)	241.3
12	Young Leaf Pubescence	Glabrous	36	Lower epidermis thickness (μm)	24.283
13	Number of Glands	2	37	No. of chloroplasts	7.666
14	Position of Glands	Alternate	38	Total thickness(μm)	459.097
15	Leaf Length (cm)	20.523	39	Palisade: Parenchyma	0.668
16	Leaf Width (cm)	7.123	40	Chlorophyll a (mg/g)	1.43
17	Petiole Length (cm)	1.163	41	Chlorophyll b (mg/g)	0.967
18	Leaf Length: petiole length	17.642	42	Chlorophyll a/b	1.479
19	Leaf Weight	5.27	43	total Chlorophyll (mg/g)	2.383
20	Petiole Weight	0.062	44	Phenol (μg/mg)	3.247
21	Leaf weight: Petiole Weight	84.651	45	Reducing sugar (μg/mg)	11.433
22	Lamina weight (gm)	5.208	46	Non-reducing sugar (μg/mg)	3.6
23	Laminar Index (%)	98.817	47	Proline (μg/g)	14.133
24	Internodal Distance(cm)	1.963	48	Protein (mg/g)	17.167