

Accession No. 514

IC No.: 381644

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Pakhandeeh, Jharkhand

Date of plantation: June-2003



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	66.06
2	Bark Nature	Rough	26	MRC (%)	61.8
3	Bark Colour	Grey	27	Stomata /mm ²	368.963
4	Phyllotaxy	Opposite	28	Stomata length (μm)	25.4
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	14.6
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	16.303
7	Leaf Apex	Acute	31	Stomata pore width (μm)	3.68
8	Leaf Margin	Crenate	32	Cuticle thickness(μm)	26.49
9	Young Leaf Colour	Moderate Copper Red	33	Upper epidermis thickness (μm)	30.597
10	Young Leaf midrib Colour	Red	34	Palisade thickness (μm)	177.113
11	Mature Leaf colour	Dark Green	35	Parenchyma thickness (μm)	156.937
12	Young Leaf Pubescence	Dense	36	Lower epidermis thickness (μm)	21.713
13	Number of Glands	2	37	No. of chloroplasts	9
14	Position of Glands	Alternate	38	Total thickness(μm)	412.85
15	Leaf Length (cm)	12.23	39	Palisade: Parenchyma	1.129
16	Leaf Width (cm)	4.5	40	Chlorophyll a (mg/g)	1.145
17	Petiole Length (cm)	0.6	41	Chlorophyll b (mg/g)	1.193
18	Leaf Length: petiole length	20.383	42	Chlorophyll a/b	0.96
19	Leaf Weight	4.217	43	total Chlorophyll (mg/g)	2.353
20	Petiole Weight	0.066	44	Phenol (μg/mg)	1.08
21	Leaf weight: Petiole Weight	64.38	45	Reducing sugar (μg/mg)	9.783
22	Lamina weight (gm)	4.151	46	Non-reducing sugar (μg/mg)	7.073
23	Laminar Index (%)	98.44	47	Proline (μg/g)	15.067
24	Internodal Distance(cm)	1.72	48	Protein (mg/g)	17.513