

Accession No. 123

IC No.: 355553

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Nagri,Ranchi,Jharkhand

Date of plantation: July-Aug 2001



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Spreading	25	Moisture (%)	67.14
2	Bark Nature	Smooth	26	MRC (%)	65.973
3	Bark Colour	Light Brown	27	Stomata /mm ²	263.61
4	Phyllotaxy	Opposite	28	Stomata length (μm)	28.07
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	15.6
6	Leaf Shape	Ovate	30	Stomata pore length (μm)	15.26
7	Leaf Apex	Mucronate	31	Stomata pore width (μm)	4.917
8	Leaf Margin	Sinuate	32	Cuticle thickness(μm)	12.717
9	Young Leaf Colour	Light Copper Red	33	Upper epidermis thickness (μm)	19.033
10	Young Leaf midrib Colour	Green	34	Palisade thickness (μm)	151.98
11	Mature Leaf colour	Dark Green	35	Parenchyma thickness (μm)	164.573
12	Young Leaf Pubescence	Moderate	36	Lower epidermis thickness (μm)	12.82
13	Number of Glands	2	37	No. of chloroplasts	7.333
14	Position of Glands	Opposite	38	Total thickness(μm)	361.123
15	Leaf Length (cm)	14.267	39	Palisade: Parenchyma	0.923
16	Leaf Width (cm)	5.233	40	Chlorophyll a (mg/g)	0.977
17	Petiole Length (cm)	0.3	41	Chlorophyll b (mg/g)	0.823
18	Leaf Length: petiole length	47.556	42	Chlorophyll a/b	1.188
19	Leaf Weight	2.753	43	total Chlorophyll (mg/g)	1.643
20	Petiole Weight	0.052	44	Phenol (μg/mg)	1.613
21	Leaf weight: Petiole Weight	52.785	45	Reducing sugar (μg/mg)	4.567
22	Lamina weight (gm)	2.701	46	Non-reducing sugar (μg/mg)	9.707
23	Laminar Index (%)	98.1	47	Proline (μg/g)	7.833
24	Internodal Distance(cm)	1.857	48	Protein (mg/g)	25.333