

Accession No. 104

IC No.: 355582

Scientific Name: *Terminalia arjuna*

Common Name: Arjun

Place of origin: Nagri, Ranchi

Date of plantation: July-Aug 2001



Anatomy and physiology

#	Parameter		#	Parameter	
1	Plant Nature	Erect	25	Moisture (%)	69.077
2	Bark Nature	Rough	26	MRC (%)	67.95
3	Bark Colour	Light Brown	27	Stomata /mm ²	409.333
4	Phyllotaxy	Opposite	28	Stomata length (μm)	26.367
5	Leaf Nature	Homophyllous	29	Stomata width (μm)	14.7
6	Leaf Shape	Lanceolate	30	Stomata pore length (μm)	16.9
7	Leaf Apex	Acute	31	Stomata pore width (μm)	5.857
8	Leaf Margin	Repand	32	Cuticle thickness(μm)	6.29
9	Young Leaf Colour	Light Green	33	Upper epidermis thickness (μm)	12.617
10	Young Leaf midrib Colour	Green	34	Palisade thickness (μm)	164.443
11	Mature Leaf colour	Green	35	Parenchyma thickness (μm)	164.467
12	Young Leaf Pubescence	Glabrous	36	Lower epidermis thickness (μm)	6.483
13	Number of Glands	2	37	No. of chloroplasts	8
14	Position of Glands	Alternate	38	Total thickness(μm)	373.123
15	Leaf Length (cm)	14.467	39	Palisade: Parenchyma	1
16	Leaf Width (cm)	4.833	40	Chlorophyll a (mg/g)	0.717
17	Petiole Length (cm)	0.633	41	Chlorophyll b (mg/g)	0.647
18	Leaf Length: petiole length	22.842	42	Chlorophyll a/b	1.109
19	Leaf Weight	5.07	43	total Chlorophyll (mg/g)	1.373
20	Petiole Weight	0.153	44	Phenol (μg/mg)	0.617
21	Leaf weight: Petiole Weight	33.214	45	Reducing sugar (μg/mg)	5.583
22	Lamina weight (gm)	4.917	46	Non-reducing sugar (μg/mg)	11.067
23	Laminar Index (%)	96.988	47	Proline (μg/g)	15.177
24	Internodal Distance(cm)	2.2	48	Protein (mg/g)	17.637