

Technical expertise report :

Applicant :

Wim Vaerewyck
watermolendreef 142
9100 Sint-Niklaas

N° of identification : exp_396

Date of receipt : 04-02-2022

Date of delivery :

Sample ID : wood block

Sample processing :

- Production of thin sections in transversal , tangential and radial plan.
- Staining with Safranin O and Alcian blue.

Anatomical key features (IAWA - hardwood):

N°	present	absent	Features
IAWA			
1	P		Growth ring boundaries distinct
22	P		Intervessel pits alternate
24	P		Minute - <= 4 µm
30	P		Vessel-ray pits with distinct borders; similar to intervessel pits in size and shape throughout the ray cell
41	P		50 - 100 µm
42	P		100 - 200 µm
61	P		Fibres with simple to minutely bordered pits
66	P		Non-septate fibres present
69	P		Fibres thin- to thick-walled
77	P		Axial parenchyma diffuse-in-aggregates
92	P		Four (3-4) cells per parenchyma strand
97	P		Ray width 1 to 3 cells
106	P		Body ray cells procumbent with one row of upright and / or square marginal cells
107	V		Body ray cells procumbent with mostly 2-4 rows of upright and / or square marginal cells
118	P		All rays storied
120	P		Axial parenchyma and / or vessel elements storied
121	P		Fibres storied
136	P		Prismatic crystals present
137	P		Prismatic crystals in upright and / or square ray cells

Conclusion :

Based on the observed anatomical characteristics, sample **Exp_396** belongs to the family **MALVACEAE** and the genus ***Mansonia***.

The description is identical to : **CFR. *Mansonia altissima***

