

Technical expertise report :

<p><u>Applicant :</u></p> <p>Yves Macaux 0475933745</p>
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<p>N° of identification : exp_394</p> <p>Date of receipt: 28-01-2022</p> <p>Date of delivery :</p>

Sample ID : ARMCHAIR - JOSEF HOFFMANN

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			
22	P		Intervessel pits alternate
26	P		Medium - 7 - 10 µm
29	P		Vestured pits
30	P		Vessel-ray pits with distinct borders; similar to intervessel pits in size and shape throughout the ray cell
42	P		100 - 200 µm
58	P		Gums and other deposits in heartwood vessels
61	P		Fibres with simple to minutely bordered pits
66	P		Non-septate fibres present
70	P		Fibres very thick-walled
77	P		Axial parenchyma diffuse-in-aggregates
79	P		Axial parenchyma vasicentric
86	P		Axial parenchyma in narrow bands or lines up to three cells wide
91	P		Two cells per parenchyma strand
97	P		Ray width 1 to 3 cells
104	P		All ray cells procumbent
118	P		All rays storied
120	P		Axial parenchyma and / or vessel elements storied
136	P		Prismatic crystals present
142	P		Prismatic crystals in chambered axial parenchyma cells

Conclusion :

Based on the observed anatomical characteristics, sample **Exp_394** belongs to the family **LEGUMINOSAE PAPILIONOIDEAE** and the genus ***Dalbergia***.

The description is identical to : **CFR. *Dalbergia nigra***

