

***Michelia mediocris***

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Collection date	October 2000						
Seed source	Minh Dai commune, Thanh Son district, Phu Tho province. Vietnam						
<b>Initial trials</b>							
Seedt weight (with seed coat)	8.45 g						
Seed weight (seed coat removed)	2.59 g						
Initial moisture content before extraction (%)	27.1						
Initial moisture content after extraction (%)	33.6						
Initial germination (%)	31.8						
<b>Desiccation trial</b>							
Mc after desiccation (%)	28.4	24.4	20.1	16.0	14.9	9.3	
Germination (%)	<b>48</b>	<b>42</b>	<b>42</b>	<b>53</b>	<b>15</b>	<b>0</b>	
<b>Storage trial</b>							
Mc before storage (%)	33.1	28.4	24.4	20.1	16.0		
<b>Storage at ambient temperature</b>							
Mc after 1 month of storage (%)	33.0	29.6	26.6	23.3	16.5		
Germination after 1 month of storage (%)	<b>33</b>	<b>33</b>	<b>67</b>	<b>46</b>	<b>0</b>		
Mc after 3 months of storage (%)	32.9	29.6	29.2	26.6	20.3		
Germination after 3 months of storage (%)	<b>36</b>	<b>36</b>	<b>40</b>	<b>0</b>	<b>0</b>		
Mc after 6 months of storage (%)	36.6	32.2	31.2	26.3	24.3		
Germination after 6 months of storage (%)	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
Mc after 9 months of storage (%)	41.1	38.5	36.4	33.5	29.9		
Germination after 9 months of storage (%)	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
<b>Storage at 15°C</b>							
Mc after 1 month of storage (%)	34.5	30.7	26.4	24.5	17.5		
Germination after 1 month of storage (%)	-	<b>75</b>	<b>38</b>	<b>51</b>	<b>0</b>		
Mc after 3 months of storage (%)	35.4	30.7	27.7	23.8	17.4		
Germination after 3 months of storage (%)	<b>85</b>	<b>62</b>	<b>63</b>	<b>38</b>	<b>0</b>		
Mc after 6 months of storage (%)	33.5	31.4	28.7	30.0	27.0		
Germination after 6 months of storage (%)	<b>53</b>	<b>62</b>	<b>47</b>	<b>46</b>	<b>0</b>		
Mc after 9 months of storage (%)	36.7	33.2	27.3	29.3	32.3		
Germination after 9 months of storage (%)	<b>31</b>	<b>60</b>	<b>32</b>	<b>25</b>	<b>0</b>		
<b>Storage at 5°C</b>							
Mc after 1 month of storage (%)	31.4	27.5	26.5	24.6	17.7		
Germination after 1 month of storage (%)	<b>57</b>	<b>68</b>	<b>62</b>	<b>58</b>	-		
Mc after 3 months of storage (%)	33.8	31.2	26.4	26.4	21.8		
Germination after 3 months of storage (%)	<b>74</b>	<b>58</b>	<b>43</b>	<b>41</b>	<b>0</b>		
Mc after 6 months of storage (%)	35.0	29.2	27.5	24.9	19.2		
Germination after 6 months of storage (%)	<b>78</b>	<b>74</b>	<b>57</b>	<b>50</b>	<b>0</b>		
Mc after 9 months of storage (%)	34.0	32.6	28.6	24.1	22.7		
Germination after 9 months of storage (%)	<b>55</b>	<b>71</b>	<b>54</b>	<b>45</b>	<b>0</b>		

<i>Comments and conclusions</i>	<p>Seed of <i>Michelia mediocris</i> tolerates desiccation down to around 15% before they lose viability. However, the optimal moisture content for storage seems to be around 30% and at mc below 20% no seed survived the first three months. At 30% mc, seed retained high viability after 9 months of storage. The seed is tolerant to low temperatures, best storage was obtained at 5°C while seed stored at ambient temperature lost viability after 3 months.</p> <p>Some samples showed an increase in germination during storage and it is possible the seed needs afterripening.</p>
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