

## *Cinnamomum cassia*

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Collection date	January 18 <sup>th</sup> 2000					
Seed source	Dai Son Commune, Van Yen District, Yen Bai Province					
<b>Initial trials (Vietnam)</b>						
Fruit weight	0.77 g					
Seed weight	0.39 g					
Moisture content before processing (%)	44.6 ± 0.7 (SD)					
Moisture content after processing	44.5 ± 0.4 (SD)					
Initial germination before processing	95%					
Initial germination after processing	92%					
<b>Initial trials (Australia)</b>						
Moisture content	46.94%					
Cut test	71% viable seeds					
Germination	38% (replicates varied from 16 to 68%)					
<b>Desiccation trial (Vietnam)</b>						
Target moisture contents	40, 35, 30, 20, 15, 10 and 5%					
Actual moisture contents (%)	40.2	36.2	30.9	13.7	7.2	6.7
Germination after desiccation (%) ± SD	71.5 ± 17.7	84.5 ± 8.7	85.5 ± 3.4	21.8 ± 6.9	0	0
Control germination for the lowest mc	83%					
<b>Desiccation trial (Australia)</b>						
Target moisture contents	40, 35, 30, 20, 10 and 5%					
Actual moisture contents (%)	40.1	35.3	28.4	19.8	11.5	7.13
Germination after desiccation (%)	55	29	20	23	0	0
Control germination for the lowest mc	31%					
Air-drying	Slow drying resulted in lower germination percentages					
<b>Storage trial (Vietnam)</b>						
Moisture contents before storage	40.2	36.2	30.9	13.7	7.2	6.7
Germ. (%) after 1 month at 5°C	<b>90.5</b>	<b>71.0</b>	<b>80.3</b>	<b>0</b>	<b>0</b>	<b>0</b>
Moisture contents after storage	43.0	39.0	33.9	16.3	14.7	10.6
Germ. (%) after 1 month at 15°C	<b>10.5</b>	<b>49.8</b>	<b>35.5</b>	<b>0</b>	<b>0</b>	<b>0</b>
Moisture contents after storage	44.2	39.1	35.3	18.2	11.6	10.1
Germ. (%) after 1 month at ambient temp.	<b>89.5</b>	<b>89.5</b>	<b>8.75</b>	<b>0</b>	<b>0</b>	<b>0</b>
Moisture contents after storage	44.4	40.4	35.8	17.9	12.1	11.1
<b>Storage trial (Australia)</b>						
Storage at 4 and 25 °C, moisture contents: 41 and 44%	After 1 month, highest germination was obtained for 44% moisture content, stored at 5°C: 11% germination. There was no germination after storage at 25°C.					
Comments and conclusions	The desiccation trial in Vietnam showed that the seeds are intolerant to desiccation when the moisture content comes below somewhere between 14 and 31%. However, the seeds seemed to have become more desiccation sensitive after two weeks transport to Australia. In the next trial the seeds should be desiccated to moisture contents between 15 and 40%. The preliminary storage results indicate best results at either 5°C or ambient temperature for the samples with the highest moisture content but more results will follow. Fungus was a problem during storage at ambient temperature.					