

Genipa americana (1998 – collection)

<i>Collecting partner</i>	Antonieta Nassif Salomão. CENARGEN, S.A.I.N. Parc Rural C.P. C.P. 02372. CEP 70770 Brasilia DF, Brazil				
<i>Collection date</i>	7 and 8 November 1998				
<i>Seed source</i>	Mangabeira Farm, Mato Seco Region, State of Golais				
<i>Initial trials</i>					
<i>Fruit weight</i>	175.5 ± 53.19 g				
<i>Seed weight</i>	0.0889 ± 0.01 g				
<i>Mc after processing</i>	46.04 ± 5.31 %				
<i>Mc of the embryo</i>	76.52 ± 0.68 %				
<i>Mc of endosperm + seed coat</i>	37.95 ± 0.68 %				
<i>Initial germination (%)</i>	96				
<i>Desiccation trial</i>					
<i>Moisture contents (%) after desiccation</i>	56.48 – 25.20	19.23	9.34	6.88	6.72
<i>Germination (%) after desiccation</i>	87 – 97	92	78	43	29
<i>Controls</i>	No decrease in germination percentage				
<i>Storage trial</i>					
<i>- 20°C for 24 h, 51- 6 % mc</i>	Max. 15% germination (8.6% mc)				
<i>5, 10 and 15°C, 2, 4, 6, 8, 10 and 12 months</i>	Below are only shown results from after 12 months				
<i>Moisture contents (%) before storage</i>	42.32	39.48	38.03	10.79	
<i>Germ. (%) after 12 months at 5°C</i>	3	0	2	85	
<i>Moisture contents (%) after storage</i>	36.39	39.59	39.08	19.59	
<i>Germ. (%) after 12 months at 10°C</i>	2	0	0	90	
<i>Moisture contents (%) after storage</i>	38.39	35.59	34.18	10.77	
<i>Germ. (%) after 12 months at 15°C</i>	0	0	0	80	
<i>Moisture contents (%) after storage</i>	39.55	38.70	36.88	13.90	
<i>Comments and conclusions</i>	See 1999 collection				

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<i>Replicating partner</i>	William Vasquez, Banco de Semillas Forestales, CATIE, 7170 Turrialba, Costa Rica					
<i>Collection date</i>	7 November 1999					
<i>Seed source</i>	Cachoeira Farm and Agua Parada Farm, Agua Fria Municipality, State of Goiás					
<i>Initial trials – replicating partner</i>						
<i>Initial germination (%)</i>	96.5 ± 1.0 %					
<i>Desiccation trial – replicating partner</i>						
<i>Mc range after desiccation</i>	46.9 – 9.8 %					
<i>Mc (%)</i>	46.9	41.2	33.9	21.6	16.3	9.8
<i>Germination (%) after desiccation</i>	96	96	97	96	95	89
<i>Controls</i>	No decrease in germination percentage					
<i>Storage trial – replicating partner</i>						
<i>- 17°C and 9.8 % mc 5 and 15°C, 3 and 6 months, 41.2, 21.6 and 9.8% mc</i>	Initiated – result not yet ready					
<i>Storage trial – collecting partner</i>						
<i>5, 10, 15 and 25°C, 2-12 months initiated</i>						
<i>Moisture content (%) before storage</i>	38.36			10.52		
<i>Germ. (%) after 2 months at 5°C</i>	78			8		
<i>Germ. (%) after 2 months at 10°C</i>	91			27		
<i>Germ. (%) after 2 months at 15°C</i>	80			27		
<i>Germ. (%) after 2 months at 25°C</i>	94			0		
<i>Comments and conclusion</i>	Minimum safe moisture content seems to be between 10 and 20%. This interval needs to be investigated more thoroughly. Storage results after one year are very promising, however declining seedling vigour has been found after 6 months' storage.					