

Your views are invited on the following subject:-

Seed Standards for Germination and Dormancy Treatments for Indigenous Medicinal and Aromatic Plants

PLANT SPECIES	BEST SUITED		Germination %		TREATMENTS FOR DORMANCY BREAKING
	SUBSTR.	TEMP.(in °C	Control	After Treatment	
<i>Abelmoschus moschatus</i>	TP	25	40	82	Sand paper scarification
<i>Abrus precatorius</i>	TP.BP	25	42	86	25% H ₂ SO ₄ for 20 min. and Sand paper scarification(CD at5% 1.15)
<i>Abutilon indicum</i>	TP	25	8	82	Hot water treatment at 70°C for 5 min. (CD at1% 2.45)
<i>Acacia concinna</i>	BP	25	NIL	76	Piercing the seed coat
<i>Achyranthus aspera</i>	TP	20-30	-	-	-
<i>Aegle marmelos</i>	TP	25	68	88	Removing seed coat
<i>Argemone mexicana</i>	TP	20	44	100	Presoaking in water at 40°C overnight(CD at5% 1.16)
<i>Argyreia nervosa</i>	TP/BP	30	40	96	Sulphuric Acid treatment 25% ½ hour
<i>Asparagus officinalis</i>	TP	20	32	86	Cold stratification at –20°C for 48 hr
<i>Baliospermum montanum</i>	TP	25	-	-	-
<i>Bixa orellana</i>	TP	25	36	82	Conc. Sulphuric Acid - 10 min or Hot water (65°-60 min). (CD at5% 1.74)
<i>Bryonopsis lanceolata</i>	TP	25	40	88	Hot water (65°C-60 min) (CD at5% 1.29)
<i>Bunium bulbocastanum</i>	TP	20	nil	86	Cold stratification at –20°C for 48 hr
<i>Caesalpinia sappans</i> & <i>C. bunduc</i>	BP/Sand	25	nil	86	Crack in seed coat.
<i>Cardiospermum halicacabum</i>	TP/BP	25	nil	72	Sand paper scarification
<i>Cassia angustifolia</i>	TP	25	-	-	-
<i>Cassia occidentalis</i> & <i>C. tora</i>	TP	20	40	82	Sand paper scarification
<i>Centratherum anthelminticum</i>	TP	20	24	80	Cold stratification at –20°C for 48 hr

<i>Costus speciosus</i>	TP	25	nil	78	Presoaking in KNO ₃ (0.2%) and GA ₃ for 24 hours. (CD at 5% 1.11)
<i>Datura metel</i>	TP	25	56	92	Sand paper scarification
<i>Embelia ribes</i>	TP	25	48	92	GA ₃ 100 ppm or 0.2% KNO ₃
<i>Helicteres isora</i>	TP	25	40	86	Conc. H ₂ SO ₄ for 5 min.
<i>Indigofera tinctoria</i>	TP	25	10	76	100% acid scarification for 5 min.
<i>Mesua ferrea</i>	TP/Agar	25	72	-	-
<i>Mucuna pruriens</i>	BP	25	24	96	Cut seed
<i>Ocimum sanctum</i>	TP	25	40	86	Light + 0.2% KNO ₃
<i>Oroxylon indicum</i>	TP	25	-	-	-
<i>Paedaria foetida</i>	TP	25	-	-	-
<i>Plantago lanceolata</i>	TP	20	nil	86	Cold stratification at -20°C for 48 hr
<i>Randia dumetorum</i>	TP	20	42	86	Presoaking in water overnight
<i>Rauvolfia serpentina</i>	TP	25	40	84	Presoaking in water overnight
<i>Rubia cordifolia</i>	TP	27	56	92	Removing seed coat
<i>Saussurea lappa</i> , <i>S. costus</i> and <i>S. obvallata</i>	TP	20	nil	92	Cold stratification at 5°C for 48 hr
<i>Vitex negundo</i>	TP	20/25	-	-	-
<i>Withania coagulans</i>	TP	25	40	82	Sand paper scarification

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Send us your views at hpsingh@icar.org.in