



LIFE4FIR – Project LIFE18 NAT/IT/000164

“Decisive in situ and ex situ conservation strategies to secure the critically endangered Sicilian fir, *Abies nebrodensis*”

‘Database of the pollen/excised embryos/somatic embryogenesis samples in the cryobanks reported in the website’

Action C5



List of pollen samples stored in the cryobank. Id number of mother trees, number of stored cryovials, viability and germinability are reported.

PLANT Id	Year#	Number of stored cryovials	Year	Number of stored cryovials	Moisture content* (%)	Viability** (%)	Germinability*** (%)
1	2020	1	2022	5	7.48	78.3	84.2
2	2020	1	2022	2	7.84	9.17	8.15
6	2020	1	2022	10	11.29	90	88.89
7	2020	1	2022	2	9.17	88.89	90
8	2020	1	2022	14	10.19	98.89	91.11
9	2020	1	2022	20	9.52	79.17	87.78
10	2020	1	2022	7	8.91	82.50	98.61
11	2020	1	2022	10	9.84	90.56	93.89
12	2020	1	2022	10	8.65	46.67	92.22
13	2020	1	2022	14	9.35	86.67	89.44
14	2020	1	2022	12	8.40	67.22	99.44
15	2020	1	2022	15	10.32	63.61	99.72
16	2020	1	2022	3	8.74	90.28	90.83
17	2020	1	2022	6	9.62	93.61	85.83
18	2020		2022	4	7.76	96.39	86.58
19	2020	1	2022	3	6.86	26.89	23.89
21	2020	1	2022	1	6.78	11.46	22.08
22	2020	1	2022	18	10.89	33.06	91.67
23	2020	1	2022	2	10.06	98.89	98.06
24	2020	1	2022	5	8.74	94.44	98.89
25	2020	1	2022				
27	2020	1	2022	9	10.54	73.08	90.83
29	2020		2022	1	9.40	11.12	8.69

2021 and 2023 no pollen production

no test evaluation of moisture content, viability and germinability pollen due to COVID-19

* Moisture content before immersion in Liquid Nitrogen

** by TCC test

*** by in vitro on semisolid medium

List of zygotic embryos (ZE) and embryogenic callus encapsulated (ECe) stored in the cryobank for the represented mother trees.

PLANT Id	Type of explant ZE/ECe*	Year	Number of stored cryovials	Number of stored samples ZE/Capsules
6	ZE	2020	20	100
7	CEe	2020	11	44
8	ZE/CEe	2020	21/11	105/44
10	ZE/CEe	2020	18/11	90/44
13	ZE	2020	15	75
21	ZE/CEe	2020	18/11	90/44
22	ZE/CEe	2020	18	90/40
27	ZE	2020	16/10	80

* ZE: Zygotic Embryos; ECe: Embryogenic Callus encapsulated