



LevinSEN FP1005 Ry

1.5 Generation Seed Orchard

GENETIC ORIGIN

Abies bornmuelleriana has its natural distribution in northern Turkey on north-facing hillsides. In 1987, a 2 ha Christmas tree culture was planted (13.000 trees) with seedlings originating from Bolu-Kökeç. In the culture, 80 plus trees were selected, which are grafted in the Danish State Forest's seed orchard Kongsøre FP267.

Based on a ranking of all 80 clones, the best ranked 18 clones were then selected in Kongsøre FP267 and grafted in a seed orchard by the city of Ry (Host Lars Geil) and named "LevinSEN FP1005 Ry".

PROPERTIES

Offspring from the Kongsøre FP267 seed orchard has shown superior form and characteristics for Christmas tree production compared to all seed sources of *Abies nordmanniana*. Since the form of the offspring from Kongsøre FP267 is already at its peak and *Abies bornmülleriana*'s general Achilles heel is early flushing and poor needle retention after harvest. The clones for this seed plantation have been selected according to the criteria:

- ▶ Late flushing
- ▶ Slender trees and good needle density/fluffiness
- ▶ Post-harvest quality (needle retention)

All in all, you should expect a significantly better and very uniform average shape of the trees and improved growth, and therefore much less need for pruning and shaping. The trees also become slightly narrower and have a slightly later flushing time than the offspring of Nordmann Fir from Georgia. In the selection, emphasis is also placed on post-harvest quality and thus the risk of needle loss after harvest is reduced.

Provenance trials test set up and measured by University of Copenhagen across 4 locations in Denmark with very different soil types shows that Kongsøre FP267 genetics is superior to trees grown from seeds from Ambrolauri regardless of climate, soil type etc. In this context, the value of the trees of 1 ha is documented to be approx. 65% higher.



FACTS

- ▶ *Abies bornmülleriana*
- ▶ Clonal seed orchard. 1.5 Generation
- ▶ In production since 2019
- ▶ 4.2 ha
- ▶ 18 Clones
- ▶ DK-8680 Ry - Denmark

