

Cultural sheet: In-determinate (Tall) Tomato Tutti-Frutti F1 series

Species	
Variety Name	Tutti-Frutti F1 Cherry; F1 Mandarin: F1 Melon; F1 Paprika; F1 Red Berry; F1 Stuff'n XS
Variety number	520-010 F1 Cherry; 520-020 F1 Mandarin; 520-030 F1 Melon; 520-040 F1 Red Berry; 520-050 F1 Paprika; 520-055 F1 Stuff'n XS
Species	Lycopersicum esculentum
Trade name species	In-determinate Tomato
Type	Annual
Family	Solanum
Seed weight	1,8-3,0 gram / 1000 sds depending on seed lot and variety
EU List Variety names	TFCH520010 Cherry; TFMA520020 Mandarin; TFME520030 Melon; PFGR550045 Red Berry; TTFS520055 Stuff'n XS Red; Other varieties are in process.
Average germination	85-95%
Young Plant	
Nr of Seeds/plug	1 for plug size 1,5-3 cm
Germination days	1-2 days* (biological des-infected seeds can take 2 days more)
Germination temp.	18°-21°C – 64°-70°F Covered and high humidity, no light needed
Grow on days	14-21 days
Grow on temp.	16°-21°C – 61°-70°F
Min. Grow on temp.	16°C – 61°F (This enlarges the Grow on days period)
Max. Grow on temp.	35°C – 95°F This shortens the Grow on days period, encourage stretching internodes
Optimal D/N temp.	21°C/70°F -18°C/64°F
Soil for sowing	Sowing soil with good drainage, EC 1,5 PH 5,8-6,5
Soil for sowing covering	Vermiculite / soil with open structure /app. 2-3 mm thick
Fertilisation in the plug	2,5 EC with each watering, NPK 15-10-15 and micro elements
Ready to transplant	Full rooted plug with short internodes. Small young flower could be visible
Finish for grower	
Potting soil	Standard soil with good drainage and also good water storage capabilities EC 2,5 PH 5,8-6,5
Pot-size	15-17cm 6-7" as young plant with 1 bunch of flowers. Optimal 17 cm/7" with cage to keep the plant up
Plugs per pot	1
Indoor	Final distance indoor 25 cm/10" x 25/10" (16 plts/m2)
Spacing indoor:	Space the plants when the leaf's are reaching each other.
Outdoor in open soil	Final distance indoor 50 cm/20" in the row 100 cm/40" between the row (2 plts/m2)
Planting soil outdoor	Standard soil with good drainage and also good water storage capabilities EC 1,5 PH 5,8-6,5
Min. Grow on temp.	18°C – 61°F (This enlarges the Grow on days period)
Ideal grow on temp.	21°C-25°C– 70°-77°F
Optimal D/N temp.	23°C/77°F -18°C/64°F
Frost	Plants cannot stand frost.
Watering	Regularly for continues growth, keep the soil moist Watering with minimal. 2,5 EC keeps tomatoes healthy
Crop time to saleable	10-12 weeks after planting, the first bunch starts show colour.
Attention points during plant growing	<ul style="list-style-type: none"> • Put 1 stick and a ring around the central stem of the plant to keep the plant in balance when fruits are growing. • High temperatures (27°C average D/N) induce pollen infertility/no fruit set. Within the 21-27°C range a diurnal fluctuation of at least 5-6oC promotes good pollen fertility. • Night temperatures of between 16-20°C are ideal. Temperatures below 13°C severely affect the pollination of most cultivars. • Insects, especially bees and bumble bees, support fruit set on tomatoes

	<ul style="list-style-type: none"> • Tomato plants have a high fertilization need. When the EC is too low, the leaf's can turn yellow when the fruits are colouring. This also reduces the taste of the fruit. • When the flowers show, increase the EC in to 3-4, to keep the fertilisation in the pot high enough. (EC in the pot can go up to 7-9) • Tomato plants/leaf's can be made sturdier by spraying (MgSO4 -bitter salt and Dipotassium-sulphite (K2SO3)) solutions on the plants (possible combined with other chemicals which need to be used). This has a positive effect on the leaf size and colour • Clay in the soil will stabilize fertilization variation and reduce stretching. 2-5% is advisable, can be increased to 10%. Potassium-phosphate (MKPO3) in a concentration of 0,1% improves the quality of tomato plants. This is a good method against phytophthora. For all tomatoes this can lead to a significant reduction of failures.
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Consumer use	
Use	Indoor-Outdoor snack tomato for use in patio and garden. Keep the side-shoots away to have optimal growing of fruits and central stem.
Unique specifications	<ul style="list-style-type: none"> • Fruit weight; depends on the variety • Each variety has an excellent taste • High temperatures (27°C average D/N) induce pollen infertility/no fruit set. Within the 21-27°C range a diurnal fluctuation of at least 5-6°C promotes good pollen fertility. • Night temperatures of between 16-20°C are ideal. Temperatures below 13°C severely affect the pollination of most cultivars. • Insects, especially bees and bumble bees, support fruit set on tomatoes • Tomato plants have a high fertilization need. After germination watering with 2,5 EC with macro and micro elements supports growth. • Clay in the soil will stabilize fertilization variation

Pictures	
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2,5 cm/1" plug



TF F1 Cherry



TF F1 Mandarin



TF F1 Melon



TF F1 Red Berry



TF F1 Paprika



TF F1 Stuff'n XS



In-determinate tomato indoor



In-det tomato outdoor