

Primary Processing of Table Olives
Any process of debittering and preserving the table olive - Soaking in water and brining, fermentation, dehydration (heat, salt)

Secondary Processing
The embellishment of primary processed table olives - pitting, stuffing, cracking, herbs, spices, marinades, olive pastes and tapenade

Primary Processing of Table Olives

- Lye-cured
- Water-cured olives packed in brine
- Spontaneously fermented olives
 - Black- Greek
 - Green- Sicillian
- Dried olives dehydrated heat or salt dried

Table Olive Processing Equipment

All equipment used should be:

- · suitable for food processing
- made from either
- food grade plasticfood grade fibreglass
- food grade stainless steel that can resist corrosion by salt and/or food acids

Do not use equipment made from:

- ·Aluminium
- · Wood
- · Galvanised iron/steel

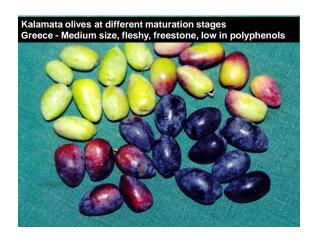
Table Olive Ripeness Levels

Green Ripe - Flesh and skin is straw coloured

Turning Color - Skin is multicoloured or lightly pigmented

Nearly Black Ripe - Black/violet skin with flesh partly pigmented - best for natural black olives, because flesh is relatively firm

Fully Black Ripe - Black/violet skin with flesh fully pigmented - best for heat dried or salt dried black olives



Spanish Style

- Start with green (straw colored olives)
- Treat with lye until ¾ the way to the pit
- Change 3-4 times until not soapy
- Add starter culture
- Store at 70 to 90 degrees
- Will take 2 to 6 months
- May need to add sugar to (Manzanillo or Mission) 1.5 to 2 teawspoons/gal to increase fermentation

Water Cured Olives

Advantage

• Short Processing Time

Disadvantages

- Method involves the use of large amounts of water
- 14 water changes
- Olives have poor organoleptic characteristics
- Soft
- Lack color
- Lack flavor
- Lose nutrients
- Need embellishing to be tasty

Water Cured Olives • Method • Whole/slit/cracked olives green/black TC • Pack into containers • Add potable water • Seal container • Change water daily • After 10-14 days add 10% salt brine • 10% brine = 1kg/solitres, 12.8 oz/gal • Allow to equilibrate

· Taste to ensure processing is complete







What is Fermentation • Fermentable Substrates eg sugars glucose, fructose --> Fermentation products eg lactic acid, acetic acid, alcohol (ethanol) • Microorganisms are involved • Untreated olives - natural spontaneous fermentation by yeasts and lactic acid bacteria • Acid formed during fermentation + Salt preserve the

Brine Cured Olives - 1

- Method
- Whole/slit/cracked olives
- Pack into containers
- Add 10% salt brine
- 10% brine = 1kg/10litres, 12.8 oz/gal
- Loosely seal container
- Gas is produced over
- 4-5 days
- When gas production stops fill container to brim and seal tightly
- Fermentation
- pH falls from 6.5 to 5
- pH and salt levels fall progressively over 3-4 weeks
- Maintain pH between 4 to 5 and salt at 6%
- · Olives continue to debitter
- Black = 3 months
- Turning = 6 months
- Green = 12 months

Brine Cured Olives - 2

- Method
- Taste to ensure processing is complete Pack olives into jars
- Add a brine with 6 -7% salt/20% vinegar
- Add embellishments
- Herbs
- Spices
- - Olive oil
- Pasteurise (optional)
- Crisp texture
- Slightly bitter taste

Brine Cured Olives - 3

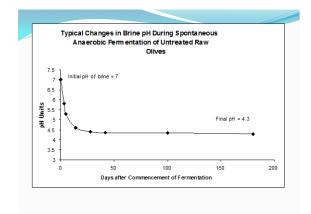
Commonly used process in countries around the Mediterranean Basin and the Middle East.

Olives are eaten straight out of the brine without embellishment.

Green - Sicilian Style Green olives (with Sicilian varieties or Sevillano in the US)

Turning Colour - Ligurian Style (with Italian varieties i.e. Frantoio)

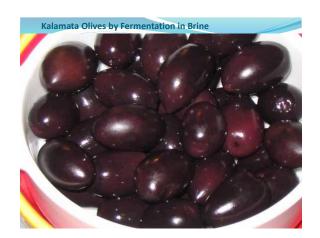
Black - Greek Style olives (with Greek varieties-Kalamata or Mission)

















Secondary Processing

Primary Processed Olives

- Mixed varieties/maturation states
- Cracked
- Pitted whole, halved
- Stuffed
- + Vinegar
- + Herbs/spices
- Olive pastes and tapenade



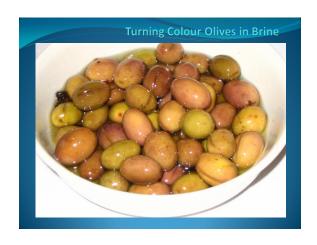


Bruised Olives (Cracked) - Using Processed Olives

- Method
- Bruise processed olives (green/TC/black)
- Pack into containers Add embellishments
- herbs
- spices
- olive oil
- Add acid/brine with 6% salt and 20% vinegar
 Acid/ Brine =800ml of 7.5%
- salt (75g/litre) + 200ml vinegar = 1 litre

- Ready to eat in a short time
- With green olives + fennel, garlic and olive oil -traditional Sicilian style











Herbs and Spices Fresh Herbs and Spices

- Suitable for fresh olive products to be consumed within 7 days stored under moderate refrigeration
- Do not add herbs and spices at the primary processing stage
- Can introduce anomalous microbes Food poisoning, spoilage

Dried Herbs and Spices

- Suitable for marinades
- Use whole or chopped
- Shelf life is reduced compared to primary processed olives

Mediterranean Dried Herbs Basil - Italian Oregano - Greek Garlic - Greek, Sicilian Fennel - Sicilian Rosemary - Greek Marjoram - Greek Parsley - Italian Sage - Greek Thyme - Greek Chilli - Italian







Olives Mixed After Processing + Fetta Cheese and Herbs



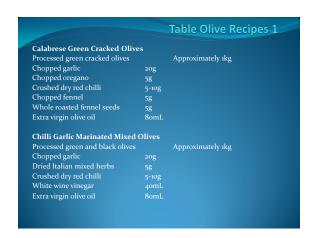


	Table Olive Recipes 2
Nicoise Olives (Fennel and)	Orange Scented Olives)
Processed small black olives*	
Chopped orange rind	10g
Dried fennel flower or seed	10g
Chopped garlic	20g
Extra virgin olive oil	8omL
* Picholine, Frantoio, Leccir	10 or Koroneiki varieties
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Oriental Style Olives	
Processed green olives	Approximately 1kg
Quarter slices of orange	
Quarter slices of lime	4 pieces
Chopped lemon grass	
Chopped ginger	
Cracked coriander seeds	
Chopped chilli	
	20g
Chopped garlic	

Tapenade
• It is an olive paste popular around the Mediterranean region, especially in France
• It is used as spreads and dips.
• Its basis is ground flesh of processed green,
turning colour, or black olives to which capers,
anchovies and other foods and spices are added.
Addition of capers differentiates, tapenades from other olive-based pastes. Olive oil - preferably extra virgin olive oil
Other ingredients that are often added
Garlic, salted anchovies (or tuna), lemon juice, Cracked pepper
Aromatics - herbs and spices
Foodstuffs - pine nuts, chilli, sun dried tomatoes



Method for Making Tapenade

- Destone processed olives or use commercial destoned olives
- Drain destoned olives if required
- Rinse olives with potable water
- Check that there are no stones or fragments
- Place the olives, anchovies (if included), capers and garlic into the food processor
- Apply short sharp impulses to the mixture to give a moderately coarse paste
- Add sufficient olive oil and mix in to give a slightly granular firm
- Pack into containers and pasteurise (or bulk pasteurise)
- Send samples to laboratory for testing

Tapenade Recipe to make approximately 1kg

Capers (drained)

Extra Virgin Olive Oil

Cracked pepper

* Sufficient olive oil is added to give the desired consistency. Also anchovy fillets can be added

Note: Tapenades containing seafood or nuts may cause allergic reactions in susceptible consumers so containers should be labelled with appropriate warnings.