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# EDITORIAL

Captive ingredients embody the soul of Firmenich – they express our uniqueness and responsible leadership.

Firmenich's **SHARING INNOVATION** program is designed to share selected Firmenich signature ingredients.

With this Flavor Ingredients 2020 collection, we are sharing our legacy and *savoir-faire* in citrus and high-tech extraction methods, offering an endless source of inspiration to creators, as well as solutions for clean-label creations.



# DISCOVER OUR INGREDIENTS





### CITRUS

ORANGE SESQUITERPENELESS FAB 968726 ORANGE OIL 40X DECOL FAB 968724 LEMON CITRONOVA® 16X FAB 926520 GREEN MANDARINE CITRONOVA® FAB 926528 LEMON TETRAROME® FAB 987333



## SUPERCRITICAL CO<sub>2</sub> EXTRACTS

TEA WHITE CHINA SFE 987721 TEA GREEN ORGANIC SFE 987725 PEANUT SFE 911230 OAKWOOD CHIPS SFE 923036





## #1 IN CITRUS

# OF LEADERSHIP IN AUTHENTIC CITRUS



For more than 75 years, Firmenich has advanced its citrus tonality expertise through continued exploration, technological innovation, and dedicated craftsmanship. Our co-innovation partnerships with growers and fruit processors provide differentiating knowledge and raw material access that translates into the most comprehensive creative palette.

Our integrated network of global specialists deliver localized preference for all food and beverage applications.

Authenticity is the action standard for every decision we make. From #NATURALSTOGETHER initiatives at source to ingredient innovation, and from responsible technologies to sustainable solutions, partnering with Firmenich connects you to a world of true-to-fruit experiences.



## CITRUS PORTFOLIO

946946 GRAPEFRUIT OIL DECOL

946979 GRAPEFRUIT OIL 5X

985950 GRAPEFRUIT TERPENES

926528 GREEN MANDARINE CITRONOVA® FAB

956815 GREEN MANDARINE OIL 4X

986156 GREEN MANDARINE TERPENES

926535 LEMON CITRONOVA® 5X FAB

926520 LEMON CITRONOVA® 16X FAB

926521 LEMON CITRONOVA® 25X FAB

925646 | FMON ESS 3X

925661 LEMON OIL 4X

**925589** LEMON OIL 5X

925615 LEMON OIL 10X

925593 LEMON OIL TERPENELESS

985462 | FMON TERPENES

987333 LEMON TETRAROME® FAB

926512 LIME CITRONOVA® 2X FAB

955265 LIME OIL 5X

926469 LIME TAHITI CITRONOVA® FAB

986056 LIME TERPENES

987423 MANDARINE TETRAROME® FAB

968402 ORANGE CARBONYLES

926477 ORANGE CITRONOVA® 5X FAB

926440 ORANGE CITRONOVA® 10X

926444 ORANGE CITRONOVA® 20X FAB

926437 ORANGE CITRONOVA® 60X FAB

968424 ORANGE ESS 3X

968457 ORANGE ESS 10X

968392 ORANGE OIL 10X

968724 ORANGE OIL 40X DECOL FAB

974771 ORANGE OIL DECOL

968509 ORANGE PEEL EXTR

968726 ORANGE SESQUITERPENELESS FAB

986243 ORANGE TERPENES CITRONOVA® FAB

987442 ORANGE TETRAROME® FAB

968374 ORANGE VALENCIA OIL 5X

968442 ORANGE VALENCIA OIL DECOL

968366 ORANGE VALENCIA OIL 5X DECOL

926524 TANGERINE CITRONOVA® FAB

984692 TANGERINE CRAVO OIL 4X

986467 TANGERINE CRAVO TERPENES FAB

984678 TANGERINE OIL 5X

984710 TANGERINE OIL 5X DECOL

986470 TANGERINE TERPENES



# ORANGE SESQUITERPENELESS FAB ORANGE OIL 40X DECOL FAB 968726 968724



"ORANGE brings richness and depth to the flavor, thanks to the fully balanced, sweet, fresh, fruity, zesty and aldehydic notes made possible by our highly specialized Firmenich separation and concentration technologies."

Charles Kaiser, Flavorist

#### SOURCED FROM

Brazil - Mexico - USA



CROP SEASON IN ALL SOURCING COUNTRIES:

J F M A M J J A S O N D

#### ORGANOLEPTIC DESCRIPTORS

Fatty, peely, sweet, woody.

#### ORANGE SESQUITERPENELESS FAB

contributes that sweet, fresh, peely-aldehydic middle body of orange often lost in juice processing.

#### **DEMO**

Application: Bottled water
Natural Orange Flavor (0.15%) bringing 1.0%
of ORANGE SESQUITERPENELESS FAB
Ingredient dosage in the demo:
0.0015% (15 ppm)

#### ORGANOLEPTIC DESCRIPTORS

Floral, citrus, animal.

**ORANGE OIL 40X DECOL FAB** adds a fruity, zesty brightness reminiscent of freshly picked sweet oranges.

#### **DEMO**

Application: Bottled water
Natural Orange Flavor (0.15%) bringing 0.9%
of ORANGE OIL 40X DECOL FAB
Ingredient dosage in the demo:
0.0013% (13 ppm)



#### LEMON CITRONOVA® 16X FAB

#### GREEN MANDARINE CITRONOVA® FAB

926520 CAS: 0008008-56-8 926528 CAS: 0008008-31-9

**CITRONOVA®** is a distillation process proprietary to Firmenich, which decreases the amount of Limonene in the extract, enabling a unique range of citrus ingredients.

Available in Orange, Lemon, Lime, Tangerine and Green Mandarine and ultra cost-efficient, our **CITRONOVA®** range is popular with flavorists, as the profile it adds to a composition is very close to original citrus oil.

# **SOURCED FROM**Argentina - Italy - Mexico



CROP SEASON IN ALL SOURCING COUNTRIES:

J F M A M J J A S O N D

#### SOURCED FROM

Brazil



CROP SEASON IN ALL SOURCING COUNTRIES:



#### ORGANOLEPTIC DESCRIPTORS

With citrus, fruity, aldehydic notes,

LEMON CITRONOVA® 16X FAB offers a

natural peely effect.

#### **DEMO**

Application: Bottled water
Natural Lemon Flavor (0.10%) bringing 1.0%
of LEMON CITRONOVA® 16X FAB
Ingredients dosage in the demo:
0,001% (10 ppm)

#### ORGANOLEPTIC DESCRIPTORS

**GREEN MANDARINE CITRONOVA® FAB** adds juicy green notes with aldehydic facets.

#### **DEMO**

Application: Bottled water

Natural Mandarine Orange Flavor (0.10%)

bringing 0.2% of

GREEN MANDARINE CITRONOVA® FAB

Ingredient dosage in the demo:

0.0002% (2 ppm)



#### LEMON TETRAROME® FAB

987333 CAS: 0008008-56-8

**TETRAROME®** is a proprietary process that yields a range of citrus extracts with a unique analytical and organoleptic profile, containing a high concentration of polar components.

Enhancing the solubility and stability of citrus oils, our cost-efficient Tetraromes bring an incredible freshness and length to compositions, as well as a mouthwatering candy-like sweetness.

#### SOURCED FROM

Argentina - Italy - Mexico



CROP SEASON IN ALL SOURCING COUNTRIES:

J F M A M J J A S O N D

#### ORGANOLEPTIC DESCRIPTORS

**LEMON TETRAROME® FAB** displays sweet notes with slight candy and peely facets.

#### DEMO

Application: Bottled water
Natural Lemon Flavor (0.10%) bringing 2.25%
of LEMON TETRAROME® FAB
Ingredient dosage in the demo:
0.0022% (22 ppm)



# #1 SUPERCRITICAL FLUID EXTRACTION



FROM PIONEER TO LEADER IN SUPERCRITICAL FLUID EXTRACTION

With decades of experience in botanical raw material extraction and supercritical fluid extraction, Firmenich is well placed to address customers' growing demand for authentic, natural taste and scent experiences.

Supercritical CO<sub>2</sub> extraction offers the safest, cleanest, and highest-quality method of extracting natural botanicals, from flowers and nuts to coffee and tea.

Firmenich has been a pioneer in supercritical  $\mathrm{CO}_2$  extraction for more than 30 years, creating game-changing, natural ingredients. This technology strengthens our leadership in naturals by enabling us to capture the exact, authentic and vibrant notes we want from natural ingredients.



 ${}^{\circ}\text{CO}_2$  extraction is a gentle process, making each extract utterly unique and different from every other, and preserving the freshness and complexity of the natural raw material. It gives creations a signature that is far more authentic and true to the natural flavor profile."

Brigitte Pellen, Flavorist



TEA GREEN ORGANIC SFE 987725 PEANUT SFE 911230

OAKWOOD CHIPS SFE 923036



#### **DESCRIPTORS**

Organically grown **GREEN TEA** is extracted with utmost care to restitute its full natural complexity, with notes that range from green to herbal-dry, straw and cereal.

#### **DEMO**

Dosage: 150 ppm in 3% sweetened water



#### **DESCRIPTORS**

Woody, phenolic, smoky, this extract of **OAK CHIPS** obtained during the process of barrels crafting brings a unique character to creation in the Alcoholic Drinks flavors and brown notes.

The aromatic and extremely well balanced profile offers a breakthrough flavor enhancer.

#### **DEMO**

Dosage: 100 ppm in plain water

#### **DESCRIPTORS**

This **WHITE TEA** extract captures the floral-fresh, green and fruity-citrus notes of this most delicate and subtle of teas.

#### **DEMO**

Dosage: 150 ppm in 3% sweetened water



#### **DESCRIPTORS**

This **PEANUT** extract has an extraordinarily indulgent, roasted, nutty profile.

#### **DEMO**

Dosage: 80 ppm in 3% sweetened water

