



NEXY® is a unique post-harvest technology containing the naturally-occurring yeast *Candida oleophila* strain O to protect Citrus fruits, Bananas and Apples. **NEXY®** is a broad-spectrum biofungicide active against several pathogens as *Botrytis cinerea*, *Penicillium spp*, *Colletotrichum musae*.

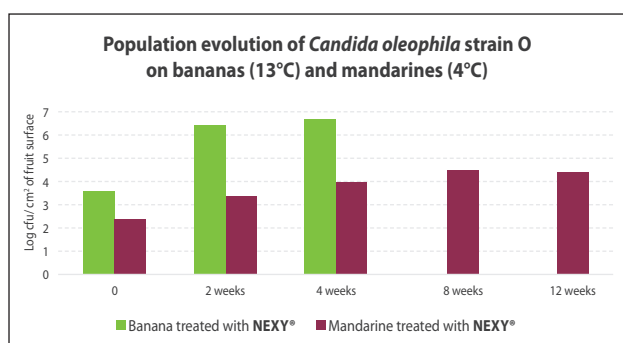
Product Identity

- **Active substance:** *Candida oleophila* strain O is listed as an approved active substance in Europe (Regulation EC No 1107/2009 - Annex I)
- **Composition:** **NEXY®** is made of two components :
 - **NEXY®** Biomass: 3.10^{10} CFU/g of *Candida oleophila*
 - **NEXY®** Additive: Calcium gluconate
- **Formulation:** WG, wettable granule
- **Application:** Post-harvest
- **Mode of application:** Spraying, drenching, dipping, etc.
- **Maximum Residue Limit (MRL):** Exempted from MRL in the EU, exempted from the requirement of a tolerance for residues in the USA
- **Shelf life :** 6 months at 20 °C / 18 months at 5°C

Mode of Action

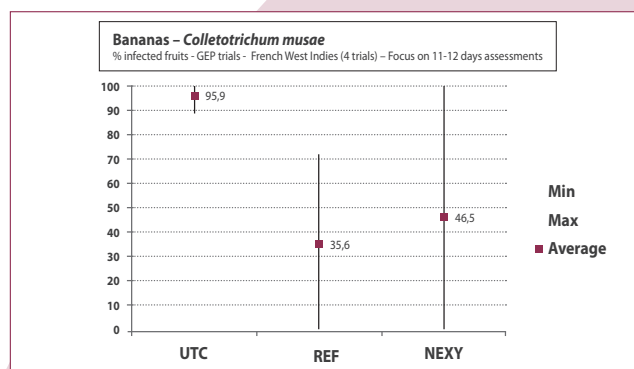
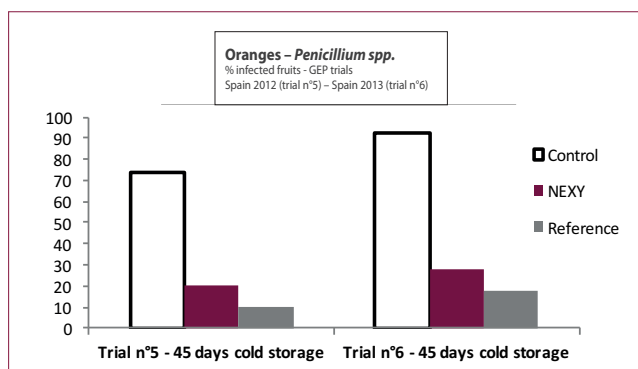
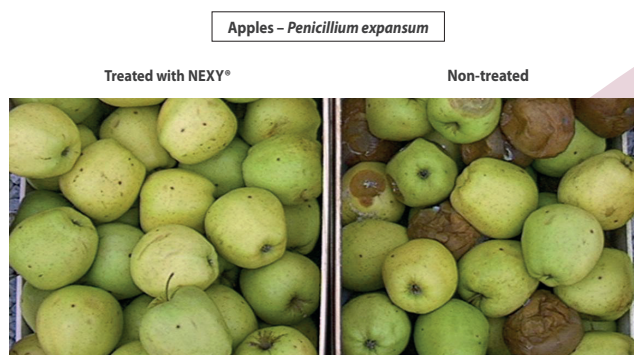
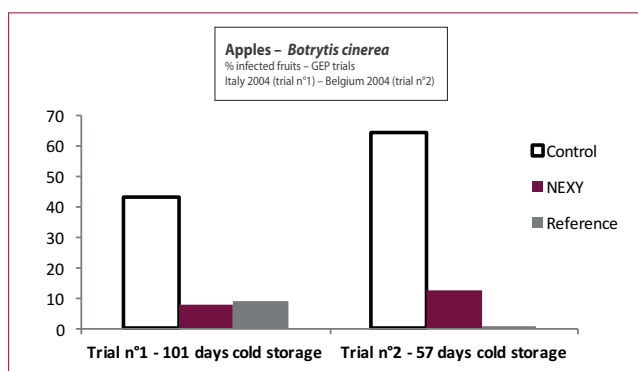
NEXY® has a preventive action. *Candida oleophila* works through spatial and nutritive competition. The pathogen growth is reduced due to the lack of space and nutrients. Resources depletion stops pathogens growth.

Technical features of *Candida oleophila* strain O



- **Ability to grow at low temperature** after application to ensure a long protection.
 - Multiplication of the yeast population by 1'000 in 2 weeks on bananas at 13°C
 - Multiplication of the yeast population by 100 in 8 weeks on mandarines at 4°C
- **Stable in solution**, the mixture can be kept during 2 days at 20°C.

Trial Results



Note : All trials are GEP trials (with artificial inoculation)

NEXY® used on apples, bananas, citrus fruits shows an efficacy comparable to the chemical references. **NEXY®** is a good alternative to chemical fungicides. In addition, biological control of post-harvest diseases is of uppermost interest comparatively to chemical fungicides: absence of residues in the food chain and low risk of appearance of fungicide resistant pathogens.

Application advices

- **NEXY®** can be used in drenching, spraying, dipping, etc. The use of nebulization (cold fogging) is being investigated.
- Rehydrate **NEXY®** biomass in water (20-25°C) during 30 min while agitating from time to time and then add **NEXY®** additive and agitate continuously until total dissolution (15 to 30 min).
- Maintain the mixture under agitation during the application.
- **NEXY®** can be kept after opening in its own packaging during 14 days in cold condition (5-6° C), or 2 days at 25°C.
- Compatibility:
 - Compatible with sodium hypochloride (until 100 ppm)

Packaging

- One pack containing 33g of **NEXY®** biomass and 200g of **NEXY®** additive
- Other packagings: on request

Usages and doses

Crop	Usage	Doses	Registration in	Registration pending in
Apples & Pears	<i>Botrytis cinerea</i> , <i>Penicillium expansum</i> , <i>Penicillium spp</i>	33g of NEXY® biomass and 200g of NEXY® additive for 100 L of mixture	France, United-Kingdom, Netherlands, Austria USA : EPA level	Germany, Poland, Spain, Greece, Italy
Bananas	<i>Colletotrichum musae</i>		France (West Indies)	Spain, ¹
Citrus	<i>Penicillium spp</i> , <i>Penicillium italicum</i> , <i>Penicillium digitatum</i>		France	Spain, Italy, Greece

¹ Other countries (Latin America, Central America & Africa from 2018)

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