



UNIVERSITÀ  
DEGLI STUDI  
FIRENZE

**DISIA**  
DIPARTIMENTO DI STATISTICA,  
INFORMATICA, APPLICAZIONI  
"GIUSEPPE PARENTI"

## Analysis report

Mannioil  
March 2023

Samples analyzed:

- Per me 2022
- Per mio figlio 2022
- Oil of life 2022

### Analysis of acidity, peroxides and total antioxidant capacity using the CDR-Oxitester instrument:

	Per me 2022	Per mio figlio 2022	Oil of life 2022	White Truffle EVOO Condiment 2022
Acidity (% oleic acid)	0,15	0,17	0,13	0,33
Peroxides (mEq/Kg O <sub>2</sub> )	6,46	6,40	6,06	13,12
Total antioxidant capacity (mg/kg tyrosol)	835	737	790	512

### HPLC-DAD-MS characterization of minor polar compounds (MPC)

Compound	Per me 2022 mg/L	Per mio figlio 2022 mg/L	Oil of life 2022 mg/L	White Truffle EVOO Condiment 2022 mg/L
Hydroxytyrosol	2,91	5,07	3,61	22,60
Tyrosol	3,14	6,25	3,38	12,96
Elenolic acid derivatives	25,56	21,34	36,68	14,03
Elenolic acid	134,63	114,12	97,61	124,51
Oleacein	298,99	225,42	212,16	68,40
Oleocanthal	195,80	141,06	169,04	59,28
Secoiridoid derivatives	31,90	39,22	50,58	31,17
Lignans	117,86	123,47	129,74	102,92
Oleuropein aglycone	179,92	165,78	160,91	121,10
<b>Total Minor Polar Compounds (MPC)</b>	<b>990,71</b>	<b>841,72</b>	<b>863,72</b>	<b>556,98</b>

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The European Food Safety Authority (EFSA) made a health claim (EU 432/2012)<sup>1</sup> about the extra virgin olive oil and its antioxidant activity (anti-aging) and the decreased risk of coronary heart disease with a minimum intake of 20g of oil per day with 5 mg of hydroxytyrosol and its derivatives.

Per Me 2022: 481,82 mg/L of hydroxytyrosol and its derivatives per serving of 20 grams of EVOO:  
10,47 mg

Per Mio Figlio 2022: 396,27mg/L of hydroxytyrosol and its derivatives per serving of 20 grams of EVOO: 8,61 mg

Oil of life 2022: 376,68mg/L of hydroxytyrosol and its derivatives per serving of 20 grams of EVOO:  
8,19 mg

<sup>1</sup> UE 432/2012: "Olive oil polyphenols contribute to the protection of blood lipids from oxidative stress. The claim may be used only for olive oil which contains at least 5 mg of hydroxytyrosol and its derivatives (e.g. oleuropein complex and tyrosol) per 20 g of olive oil. In order to bear the claim information shall be given to the consumer that the beneficial effect is obtained with a daily intake of 20 g of olive oil".