

**3**

**2**

**1**

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| **1: Neoxanthin** | **2: Lutein** | **3: -carotene** |
|  |  |  |
| **Standard Neoxanthin** | **Standard Lutein** | **Standard -carotene** |

**Supplementary Figure 1**: Typical HPLC/DADchromatogram of the most relevant carotenoids in Nebbiolo grape extracts (detection wavelength at 447 nm), and HPLC/DAD-UV spectra of 1:Neoxanthin, 2: Lutein,3: -carotene and their respective commercial standards.