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(71) Applicant: **SOCIÉTÉ DES PRODUITS NESTLÉ S.A.**
[CH/CH]; Avenue Nestlé 55, 1800 Vevey (CH).

(72) Inventors: **DE MARCHI, Umberto**; Champ-de-la-Croix,
43, 1720 Corminboeuf (CH). **FEIGE, Jerome**; Ch. de la
Baume 10, 1023 CRISSIER (CH). **STUELSATZ, Pascal**;
Rue de la Blancherie 6, 1023 Crissier (CH).

(74) Agent: **CHAUTARD, Cécile**; Avenue Nestlé 55, 1800
VEVEY (CH).

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(54) Title: COMPOSITIONS AND METHODS USING A COMBINATION OF OLEUROPEIN AND VITAMIN B6

(57) Abstract: Composition comprising a combination of oleuropein or metabolite thereof and Vitamin B6 thereof are provided. The composition may be an oral nutritional composition, for example a nutritional supplement, an oral nutritional supplement, an RTD, an RTD concentrate, a food product, a food for special medical purpose (FSMP). The composition can be administered to an individual in need thereof for improving a physiological state linked to metabolic fatigue in one or more cells, (ii) increasing mitochondrial energy and mitochondrial calcium uptake in one or more cells, and (iii) increasing antioxidant capacity, reducing oxidative stress and/or enhancing mitochondrial function, (iv) treating or preventing a calcium deficiency / depletion disorder in an individual. Additionally or alternatively, the method can treat or prevent a mitochondria-related disease or a condition associated with altered mitochondrial function in an individual in need thereof or at risk thereof.



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