

a 2013 0078

The invention relates to chemistry and biotechnology, in particular to the synthesis of a new compound with hybrid terpenic and azaheterocyclic skeleton and to a process for cultivation of *Nostoc linckia* cyanobacterium with its use. According to the invention, claimed is the N-($\Delta^{8,13}$ -bicyclohomofarnesenoilamino)carbazole compound.

It is also claimed a process for cultivation of *Nostoc linckia* cyanobacterium on a nutrient medium containing, g/L: KNO_3 – 0.51; K_2HPO_4 – 0.45; NaHCO_3 – 0.05; $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ – 0.1; CaCl_2 – 0.11; $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$ – 0.0005; MnSO_4 – 0.002; H_3BO_3 – 0.0085; $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$ – 0.00225; $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ – 0.004; $\text{Co}(\text{NO}_3)_2 \cdot \text{H}_2\text{O}$ – 0.00009; EDTA – 0.00475; N-($\Delta^{8,13}$ - bicyclohomofarnesenoilamino)carbazole compound 0.060...0.062 and distilled water up to 1 L, at a temperature of 23...25°C and illumination of 2000...3000 lx.

The result consists in increasing the antioxidant activity of cyanobacterium biomass.

Claims: 2