99-0265

The invention relates to biotechnology, particularly to nutrient media for *Haematococcus pluvialis* green alga cultivation, used as source of b-carotene and astaxanthin.

Summary of the invention consists in that it is proposed a nutrient medium for *Haematococcus pluvialis* green alga cultivation, containing $NaNO_3$, KH_2PO_4, NaCl, $CaCl_2$, $MgSO_4 \cdot 7H_2O$, $ZnSO_4 \cdot 7H_2O$, $CuSO_4 \cdot 5H_2O$, H_3BO_3, $FeCl_3 \cdot 6H_2O$, $Co(NO_3)_2 \cdot H_2O$, EDTA, distilled water and sources of the cations Mo^{6+} and Mn^{2+}. Complementary, the medium contains K_2HPO_4, in the capacity of Mo^{6+} and Mn^{2+} cations sources there are added $(NH_4)_6Mo_{24} \cdot 4H_2O$ and $MnSO_4 \cdot H_2O$, respectively, in the following component ratio, mg/l:

$NaNO_3$	299…301
KH_2PO_4	19,9…20,1
K_2HPO_4	79,9…80.1
NaCl	19,9…20,1
$CaCl_2$	46,9…47,1
$MgSO_4 \times 7H_2O$	9,9…10,1
$ZnSO_4 \times 7H_2O$	0,099…0,11
$MnSO_4 \times H_2O$	1,49…1.51
$CuSO_4 \times 5H_2O$	0,079…0,081
H_3BO_3	0,29…0,31
$(NH_4)_6Mo_{24} \times 4H_2O$	0,29…0,31
$FeCl_3 \times 6H_2O$	16,9…17,1
$Co(NO_3)_2 \times H_2O$	0,19…0,21
EDTA	7,4…7,6
distilled water	up to 1 L.

The result of the invention consists in providing a high level of the carotenoids synthesis.