

Institute of Microbiology and Biotechnology

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Organization	Ministry Of Education, Culture And Research; Institute Of Microbiology And Biotechnology; Institute Of Chemistry
Patent / patent application title	THE METHOD FOR CULTIVATION OF FUNGAL STRAIN <i>FUSARIUM GIBBOSUM</i> CNMN FD 12 PRODUCER OF PROTEASE, XYLANASE AND B-GLUCOSIDASE
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Patent / patent application N°	PATENT MD 4645 C1 2020.03.31
Description	<p>Mediu nutritiv pentru cultivarea tulpinii de funghi <i>Fusarium gibbosum</i> CNMN FD 12, caracterizat prin aceea că suplimentar, în calitate de biostimulator conține unul dintre compușii coordinativi ai Fe(III) în următorul raport al ingredientelor, % : făină de porumb – 2,0; făină de soia – 1,0; CaCO₃– 0,2; (NH₄)₂SO₄ – 0,1; [Fe (H₂L^{1,2})(H₂O)₂](NO₃)₃·nH₂O – 0,0010 - 0,0015; apă potabilă; pH inițial al mediului – 6,25. Rezultatul tehnic al invenției constă în sporirea biosintezei proteazelor neutre cu 225,6 – 247,9% față de prototip; reducerea duratei de cultivare a producătorului cu 24 ore.</p> <p>Nutrient medium for the cultivation of the <i>Fusarium gibbosum</i> CNMN FD 12 fungal strain, characterized that additional contains as a biostimulator one of the Fe(III) coordination compound in the next ingredient report, %: corn flour – 2.0, soy flour – 1.0, CaCO₃– 0.2; (NH₄)₂SO₄ – 0.1, [Fe (H₂L^{1,2})(H₂O)₂](NO₃)₃·nH₂O – 0.0010 – 0.0015, drinking water, initial pH of the medium – 6.25. The technical result of the invention consists in increasing the biosynthesis of neutral protease by 225.6-247.9% against the prototype and in reducing the producer's duration of cultivation by 24 hours.</p>
Domain	Microbiological industry