

Title (en)

RAPID METHOD FOR MEASURING COMPLEX CARBOHYDRATES IN MAMMALIAN TISSUE

Title (de)

SCHNELLVERFAHREN ZUM MESSEN KOMPLEXER KOHLENHYDRATE IN SÄUGERGEWEBEN

Title (fr)

METHODE RAPIDE DESTINEE A MESURER LA CONCENTRATION DE GLUCIDES COMPLEXES DANS LE TISSU MAMMALIEN

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0112844A1] The invention discloses a rapid method of measuring complex carbohydrates in mammalian tissue, said method comprising the steps of: extracting a sample of tissue to be tested; forming a homogenous slurry of the sample with an aqueous solution; adding sufficient hydrolysing enzyme for ensuring complete hydrolysis of glycogen in the slurry; and measuring the concentration of glucose in the slurry. The method can be conducted post-mortem to assay the concentration at the time of slaughter. The invention further discloses the measurement of lactate concentrations. The method of the invention can be conducted in thirty minutes or less.

IPC 1-7

C12Q 1/34; **C12Q 1/54**

IPC 8 full level

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CPC (source: EP)

C12Q 1/34 (2013.01); **C12Q 1/40** (2013.01)

Citation (search report)

- [Y] US 5262305 A 19931116 - HELLER ADAM [US], et al
- [Y] EP 0086108 A2 19830817 - CHILDRENS HOSP MEDICAL CENTER [US]
- [Y] BURTON SHELLEY A ET AL: "Evaluation of a glucose oxidase/peroxidase method for indirect measurement of glycogen content in marine mussels (*Mytilus edulis*)", JOURNAL OF SHELLFISH RESEARCH, vol. 16, no. 2, December 1997 (1997-12-01), pages 435 - 439, XP001182147, ISSN: 0730-8000
- [Y] CARR R S ET AL: "Quantitative semi-automated enzymatic assay for tissue glycogen.", COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY. B, COMPARATIVE BIOCHEMISTRY. ENGLAND 1984, vol. 77, no. 3, 1984, pages 447 - 449, XP002286075, ISSN: 0305-0491
- [Y] VOET AND VOET: "Biochemie", 1992, VCH, WEINHEIM, XP002286178
- [T] BURTON SHELLEY A ET AL: "Evaluation of a glucose oxidase/peroxidase method for indirect measurement of glycogen content in oysters (*Crassostrea virginica*)", JOURNAL OF SHELLFISH RESEARCH, vol. 19, no. 2, December 2000 (2000-12-01), pages 841 - 844, XP001181700, ISSN: 0730-8000
- See references of WO 0112844A1

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