

Title (en)

CREATINE/CITRIC ACID COMPOUND, METHOD FOR THE PRODUCTION OF THE SAME AND THE USE THEREOF

Title (de)

KREATIN/CITRONENSÄURE-VERBINDUNG, VERFAHREN ZU IHRER HERSTELLUNG UND VERWENDUNG

Title (fr)

COMPOSE ACIDE CITRIQUE/CREATINE, PROCEDE DE FABRICATION ET UTILISATION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO02052957A1] The invention relates to addition and/or co-ordination compounds consisting of creatine and citric acid in the ratio of >1.0 to 3.0: 1.0. Said compounds are characterised in that they have (KBr) bands in the IR spectrum, where ν = 3425 (+/- 5) cm<-1> (s), 1624 (+/- 5) cm<-1> (m-s) and 1247 (+/- 5) cm<-1> (m). Said compounds, which preferably contain no organic solvent and are present in a solid, pulverulent form are produced in particular by a method, according to which, a1) creatine, containing a maximum content of 20 wt. % water, is reacted with citric acid or its salts at temperatures between 0 and 70 DEG C, or a2) creatine and citric acid or its salts, containing a total water content of between 5 and 15 wt. %, are ground at temperatures between 0 and 70 DEG C, or a3) creatine is reacted with citric acid or its salts, in the presence of a solvent at temperatures between 0 and 70 DEG C. The corresponding solvent is then eliminated to a maximum residual content of 1.0 wt. %. The invention also relates to formulations that are suitable for use as food supplements, feed additives, dietetic agents, in functional foods, as neuroprotective agents, in addition to in the cosmetics industry etc.

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IPC 8 full level

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