

**Production and use of methionylmethionine as feed
additive for fish and crustaceans**

Abstract

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The invention relates to the use of DL-methionyl-DL-methionine and salts thereof as a feed additive in feed mixtures for animals held in aquacultures, and a method for producing DL-methionyl-DL-methionine (I) having the

10 formula (I) by converting a urea derivative of the general formula (II) to DL-methionyl-DL-methionine, wherein the groups R1 and R2 in the urea derivatives IIa, IIb, IIc, IIId, IIe, IIIf, and IIg are defined as follows:

IIa: $R^1 = \text{COOH}$, $R_2 = \text{NHCONH}_2$ IIb: $R_1 = \text{CONH}_2$, $R_2 = \text{NHCONH}_2$

15 IIc: $R_1 = \text{CONH}_2$, $R_2 = \text{NH}_2$ IIId: $R_1 - R_2 = -\text{CONHCONH}-$ IIe: $R_1 = \text{CN}$, $R_2 = \text{OH}$ IIIf: $R_1 = \text{CN}$, $R_2 = \text{NH}_2$ IIg: $R_1 = \text{O}$, $R_2 = \text{H}$.

No Suitable Fig.