[DOCUMENT NAME] Description

[TITLE OF THE INVENTION] Feed Additive and Livestock Feed

[Technical Field]

[0001]

The present invention relates to a feed additive and a livestock feed, and it also relates to a method of rearing livestock by using a livestock feed, as well as a method of improving a weight gain and a feed conversion ratio in livestock.

[Background Art]

[0002]

Methionine is an essential amino acid that is not synthesized in the body of animals, and it is known to be used as an additive to add to feed for livestock and the like.

[0003]

Creatine, which is one of amino acids, is found in the body of animals and serves as a source of energy for movements. Creatine is produced by methylation of its precursor, guanidinoacetic acid. Guanidinoacetic acid is a source of creatine, so its use as a feed additive is suggested (Japanese National Patent Publication No. 2008-501352 (PTL 1), for example).

[CITATION LIST]

[PATENT LITERATURE]

[0004]

[PTL 1] Japanese National Patent Publication No. 2008-501352

[SUMMARY]

[PROBLEMS TO BE SOLVED]

[0005]

Feed additives and livestock feeds are required to achieve an excellent weight gain and an excellent feed conversion ratio.

[0006]

An object of the present disclosure is to provide a feed additive and a livestock feed that are capable of improving a weight gain and a feed conversion ratio in livestock.

[MEANS FOR SOLVING THE PROBLEMS]

[0007]

The present disclosure provides a feed additive, a livestock feed, a method of rearing livestock, as well as a method of improving a weight gain

and a feed conversion ratio in livestock, which are described below.

[1] A feed additive containing:

a methionine hydroxy analog and/or a calcium salt thereof;

methionine and/or a salt thereof; and

guanidinoacetic acid and/or a salt thereof.

[2] The feed additive according to [1], further containing a carrier.

[3] The feed additive according to [2], wherein

the carrier includes a solid carrier, and

the solid carrier supports the methionine hydroxy analog.

[4] A livestock feed containing:

a methionine hydroxy analog and/or a calcium salt thereof;

methionine and/or a salt thereof;

guanidinoacetic acid and/or a salt thereof; and

a basic feed.

[5] The livestock feed according to [4], further containing a carrier.

[6] The livestock feed according to [5], wherein

the carrier includes a solid carrier, and

the solid carrier supports the methionine hydroxy analog.

[7] A method of rearing livestock, including feeding livestock with the livestock feed according to any one of [4] to [6].

[8] The method of rearing according to [7], wherein the livestock are poultry.

[9] A method of improving a weight gain and a feed conversion ratio in livestock, the method including feeding livestock with the livestock feed according to any one of [4] to [6].

[10] The method according to [9], wherein the livestock are poultry.

[0007a]

In an aspect, the present disclosure provides a feed additive comprising:

a methionine hydroxy analog and/or a calcium salt thereof;

methionine and/or a salt thereof; and

guanidinoacetic acid and/or a salt thereof.

[0007b]

In another aspect, the present disclosure provides a livestock feed comprising:

a methionine hydroxy analog and/or a calcium salt thereof;

methionine and/or a salt thereof;

guanidinoacetic acid and/or a salt thereof; and

a basic feed.

[0007c]

In another aspect, the present disclosure provides a method of rearing livestock, comprising feeding livestock with the livestock feed as described herein.

[0007d]

In another aspect, the present disclosure provides a method of improving a weight gain and a feed conversion ratio in livestock, the method comprising feeding livestock with the livestock feed as described herein.

[EFFECTS OF THE INVENTION]

[0008]

The present invention makes it possible to provide a feed additive and a livestock feed that are capable of improving a weight gain and a feed conversion ratio in livestock.

[MODE FOR CARRYING OUT THE INVENTION]

[0009]

(Feed Additive)

A feed additive according to the present invention (hereinafter also called "the present feed additive") contains a methionine hydroxy analog