SUMMARY OF INVENTION

TECHNICAL PROBLEM

[0008] The present invention was made in view of the above-described problems in conventional art, and aimed to provide a less stringiness thickener consisting of a compound in high demand as a thickener for cosmetics, i.e., polyacrylic acid or a salt thereof, or PAMPS or a salt thereof, where a stringiness property of the compound was reduced.

SOLUTION TO PROBLEM

[0009] The present inventors have diligently studied the above-described problems. As a result, the present inventors have found that, in the polyacrylic acid or a salt thereof, or PAMPS or a salt thereof having the weight-average molecular weight of 500 thousand to 8 million, the stringiness property displayed by the compound can be significantly reduced by allowing the content of the compound having the molecular weight of 10 million or higher to be 10 mass% or less. In addition, the present inventors have found that the cosmetics in which the sodium polyacrylate or sodium PAMPS, having a low stringiness property, of the present invention is blended, the stringy feeling, sliminess, and stickiness are hardly felt and the spreadability is excellent, thus leading to the completion of the present invention.

[0010] ~~That is, the present invention~~In one example, there is provided~~s~~ a less stringiness thickener comprising of a polymer having a weight-average molecular weight between 500 thousand and 8 million, wherein said polymer contains not more than 10% by mass of the same having the molecular weight of 10 million or higher, and said polymer is selected from the group consisting of polyacrylic acid, a salt of polyacrylic acid, PAMPS, and a salt of PAMPS.

In another example, there is ~~The present invention also~~ provided~~s~~ a cosmetic raw material comprising a less stringiness thickener comprising a polymer having a weight-average molecular weight between 500 thousand and 8 million, wherein said polymer contains not more than 10% by mass of the same having the molecular weight of 10 million or higher, and said polymer is selected from the group consisting of polyacrylic acid, a salt of polyacrylic acid, PAMPS, and a salt of PAMPS. ~~Furthermore~~In one aspect, the present invention provides a cosmetic comprising a ~~less stringiness~~ thickener

comprising 0.01 to 5.0 mass % of a polymer having a weight-average molecular weight between 500 thousand and 8 million,
wherein said polymer contains not more than 10% by mass of the same having the molecular weight of 10 million or higher, and said polymer is selected from the group consisting of polyacrylic acid, a salt of polyacrylic acid, PAMPS, and a salt of PAMPS.

ADVANTAGEOUS EFFECTS OF INVENTION

[0011] According to the present invention, a less stringiness thickener consisting of polyacrylic acid or a salt thereof, or PAMPS or a salt thereof, which has a low stringiness property, generates almost no stringy feeling, sliminess, and stickiness, and is excellent in spreadability, can be obtained. Thus, the cosmetics that are improved in the stringy feeling, sliminess, and stickiness and excellent in spreadability can be prepared by using this less stringiness thickener.

BRIEF DESCRIPTION OF DRAWINGS

[0012]

[Fig.1] A chart of gel permeation chromatography (GPC) analysis of the sodium polyacrylate in the present invention (Precision-synthesized sodium polyacrylate-2).

DESCRIPTION OF EMBODIMENTS

[0013] Hereinbelow, preferred embodiments of the present invention will be described in detail.

[Synthetic polymer compounds]

The polyacrylic acid or a salt thereof and PAMPS or a salt thereof usable in the present invention are those having the weight-average molecular weight of 300 thousand to 8 million, preferably 500 thousand to 8 million, and the content of the compound having the molecular weight of 10 million or higher being 10 mass% or less. This is because if the weight-average molecular weight is less than 300 thousand, the spreadability tends to be poor, and if the weight-average molecular weight exceeds 8 million, it becomes technically difficult to suppress the content of the compound having the molecular weight of 10 million or higher to be 10 mass%

CLAIMS

What is claimed is:

~~1. A less-stringiness thickener comprising;~~

~~a polymer having a weight-average molecular weight between 500 thousand and 8 million,~~

~~wherein said polymer contains not more than 10% by mass of the same having the molecular weight of 10 million or higher, and~~

~~said polymer is selected from the group consisting of polyacrylic acid, a salt of polyacrylic acid, poly(2-acrylamido-2-methylpropanesulfonic acid), and a salt of poly(2-acrylamido-2-methylpropanesulfonic acid).~~

~~2. A cosmetic raw material comprising a less-stringiness thickener comprising;~~

~~a polymer having a weight-average molecular weight between 500 thousand and 8 million,~~

~~wherein said polymer contains not more than 10% by mass of the same having the molecular weight of 10 million or higher, and~~

~~said polymer is selected from the group consisting of polyacrylic acid, a salt of polyacrylic acid, poly(2-acrylamido-2-methylpropanesulfonic acid), and a salt of poly(2-acrylamido-2-methylpropanesulfonic acid).~~

13. A cosmetic comprising a ~~less-stringiness~~ thickener comprising;

0.01 to 5.0 mass % of a polymer having a weight-average molecular weight between 500 thousand and 8 million,

wherein said polymer contains not more than 10% by mass of the same having the molecular weight of 10 million or higher, and

said polymer is selected from the group consisting of polyacrylic acid, a salt of polyacrylic acid, poly(2-acrylamido-2-methylpropanesulfonic acid), and a salt of poly(2-acrylamido-2-methylpropanesulfonic acid).

2. The cosmetic according to claim 1, wherein the cosmetic is a makeup cosmetic or a skin care cosmetic selected from a group consisting of cream, milky lotion, lotion, gel, and pack.