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(54) Title: FOOD PREPARATION WITH MUSHROOMS AND MAKING PROCESS

(57) Abstract: The present invention relates to a food preparation according to the preceding claim, characterized in that it comprises, in weight percentage on the total weight, 20% to 60% dietary fats, 5% to 40% mushrooms calculated in dry residue condition, 20% to 60% water and at least one thickening ingredient. The percentage of mushrooms considered in the dry residue condition derives from the presence of a liquid extract of mushrooms, preferably concentrated, and/or mushroom powder and/or a dry residue resulting from a mushroom extract. The preparation has the appearance of a homogeneous mixture with a creamy or frosting texture. In the process, the ingredients are combined together by mixing fats and at least one thickening ingredient first, and then adding the remaining ingredients.



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Title: **Food preparation with mushrooms and manufacturing method.**

* * * * *

DESCRIPTION

5 The present invention relates to a food preparation with mushrooms, preferably wild, even more preferably from the Boletaceae family (hereinafter referred to as "Boletus" for brevity), and even more preferably of the species named "Boletus edulis", i.e. 10 porcino mushrooms. It is noted that "wild mushrooms" refers to mushrooms born spontaneously in nature, such as in woods and meadows, and therefore not cultivated by man.

 The preparation preferably has a creamy or 15 frosting texture, and is generally intended for use as a base for sauces and/or used as such as a gourmet condiment; however, other uses and textures are not excluded. The present invention also relates to a method for manufacturing such food preparation.

20 It is noted that by food preparation having a creamy or frosting texture it is meant a multiphase system with rheological parameters determined at 1 Hz frequency defined by a complex viscosity (Pa*s) between 5 and 120, an accumulation modulus G' (Pa) between 30 and 25 900, a dissipative modulus G'' (Pa) between 10 and 300.

 The field of food preparations has developed for

a long time because of the need to speed up the manufacture of finished dishes or to have products ready for use, both at home and in restaurants.

For example, the European patent EP1468615 by
5 "Barilla Alimentare Spa" is known, wherein a food preparation having a creamy texture is formulated to be used as a base in the preparation of sauces. However, the Applicant has noted that the Barilla patent is a totally general patent, which uses the same formulation to create
10 preparations that are also very different from one another, such as those based on herbs and those based on mushrooms. Barilla therefore does not address in any way the specific problems of mushrooms, first of all the organoleptic quality of the end product.

15 Furthermore, the Applicant points out that since the cream is a mixture of several ingredients of a different nature, and thus chemically and physically not stable, Barilla does not describe any system to maintain its homogeneity and stability over time.

20 The Applicant also notes that Barilla uses fresh foods as a starting base, making the process for obtaining the preparation more complex to manage at an industrial level, because of the difficulties of storage and the need for plants provided with refrigerators that
25 increase the final cost.

In addition, Barilla does not consider the

possibility of obtaining the preparation with wild mushrooms, which by their nature are originally impure, due the presence of larvae, soil, moss, pine needles, etc.

5 Finally, Barilla does not provide a formulation usable as a food ready for consumption as such, for example as a seasoning.

 A general object underlying the present invention is therefore to overcome, at least partially, the
10 drawbacks of the prior art represented by the European patent EP1468615 by Barilla Alimentare SPA.

 A preferred object of the present invention is to provide the formulation of a food preparation with mushrooms, more preferably wild mushrooms, even more
15 preferably porcino mushrooms, having high organoleptic features.

 Another preferred object of the present invention is to obtain a formulation which is homogeneous and stable over time.

20 Another further object of the present invention is to provide a food preparation which is simple and cost-effective to produce at an industrial level.

 Another object of the present invention is to provide a food preparation that has excellent
25 organoleptic features with a minimum use of fine ingredients such as mushrooms.

Yet a further object of the present invention is to provide a food preparation with wild mushroom free from their contaminants, such as larvae, soil, moss, pine needles, etc.

5 Yet a further object of the present invention is to provide a food preparation with mushroom with a long shelf-life, that is, which retains the properties of edibility for a very long time.

10 According to a first general aspect thereof, the present invention relates to a food preparation according to claim 1, that is, a food preparation with mushrooms, characterized in that it comprises, in weight percentage on the total weight, 20% to 60% dietary fats, 5% to 40% dry residue of mushrooms, 20% to 60% water.

15 The Applicant has also observed that the best results of mixing between fats and mushrooms are obtained with the following ranges, in weight percentage on the total weight: 31% to 49% dietary fats, 5% to 35% mushrooms calculated in dry residue condition, 25% to 49%
20 water and at least one thickening ingredient.

More preferably, water is between 25% and 45%. Even more preferably, the preparation comprises 33% to 45% dietary fats, 5% to 28% mushrooms calculated in dry residue condition, and 30% to 45% water.

25 In general, it is observed that the fats comprise at least one oil, more preferably they are an oil or a

mixture of oils.

The "dry residue of mushrooms" is understood in general to have a residual moisture content less than or equal to 5%, more preferably less than or equal to 1%. If
5 a mushroom extract is used in the formulation, its percentage of water is considered herein as included in the total percentage of water. The extract can generally be obtained from fresh mushrooms, but more preferably it is obtained from dried mushrooms.

10 The dry residue of mushrooms is for example what remains by removing the water from the mushrooms or an extract thereof, for example by drying or freeze-drying.

Following many experiments, the Applicant has found that the percentages indicated above allow high
15 levels of appreciation of the mushroom flavor, even with low amounts of this precious element. In particular, in a first experimental step it was found that the mere presence of mushrooms and fats did not allow the flavorings to emanate adequately, especially if the
20 mushrooms were added in the form of mushroom powder, extract powder or liquid extract directly, for example concentrated, which was instead optimized by the presence of water on the percentage indicated above.

The use of mushrooms in the form of extract
25 residue or in the form of the extract, for example concentrated, is particularly appreciated in that any

impurities are not present, thus allowing the creation of a pure preparation, even with wild mushrooms.

The powder and/or the dry residue and/or the mushroom extract are also more easily storable and
5 therefore usable industrially compared to fresh mushrooms, and therefore they lead to a reduction of production costs.

According to some preferred embodiments, the thickening ingredient comprises xanthan gum, more
10 preferably the xanthan gum is the only thickening ingredient. Xanthan gum is particularly preferred for the minimum amounts required. For example, an adjusted percentage by weight on the total weight is less than or equal to 0.20%. This thickening component was identified
15 after many experiments since it allows achieving optimum consistency and stability of the mixture over time, especially when a cream or frosting texture is desired. Thanks to xanthan, moreover, unpleasant aspects related to the use of other stabilizers is prevented, such as the
20 necessity of very high amounts of stabilizer, or the formation of filaments, such as occurs by mixing large amounts of starch. Starch, in particular, can thus be present in a reduced amount, or preferably be absent.

In general, any type of thickener may be used,
25 for example it is possible to choose between at least one thickening ingredient among: xanthan gum, starch,

modified starch, pectin, amidated pectin, alginic acid and salts thereof, propylene glycol alginate, agar-agar, arabic gum, tragacanth gum, carrageenan, carob seed flour, guar seed flour, cellulose, methyl cellulose, 5 hydroxypropyl cellulose and carboxymethyl cellulose, polyphosphates.

In general, it is also possible to use one or more of such thickeners in combination. The amount of thickener, in weight percentage on the total weight, 10 especially in the case of starch or modified starch, is less than or equal to 6%, more preferably 2.5%.

In general, it is preferable that the food preparation according to the present invention includes at least two ingredients capable of lowering the water 15 activity (a_w) selected from NaCl, KCl, glucose, starch. The starch is, however, less preferred and preferably absent.

This advantageously reduces the need to abound with NaCl, which is known to be cooking salt. In this 20 way, it is possible to adequately control the flavor of the preparation. For example, excellent results are achieved with the use, in weight percentage on total weight, of NaCl less than or equal to 5%, more preferably less than or equal to 3%, even more preferably between 25 0.5% and 2%, KCl less than or equal to 4%, more preferably less than or equal to 2%, even more preferably

between 0.2% and 2%, glucose less than or equal to 8%,
more preferably less than or equal to 6%, starch less
than or equal to 6% and preferably absent. In this case,
it is possible to obtain the water activity (a_w) less
5 than or equal to 0.95, thus extending the shelf-life.

According to some preferred embodiments of the
invention, the food preparation comprises Glucone Delta
Lactone.

This ingredient was introduced as a result of a
10 long experimentation to reduce the pH by reducing or
eliminating the use of other components such as citric
acid or lemon juice, which would excessively increase the
acid taste, not suitable for mushroom preparations.

For example it is possible to use, in weight
15 percentage on the total weight, an amount of Glucone
Delta Lactone less than or equal to 3%, more preferably
less than or equal to 1.5%. This allows obtaining a pH
less than or equal to 4.5, but more preferably the pH is
between 3.5 and 3.9.

20 In general, it is preferable that the food
preparation according to the present invention has a
creamy or frosting texture, even more preferably it is
preferable that it has the appearance of a homogeneous
mixture. This favors the use thereof as a ready
25 seasoning.

According to a second general aspect thereof, the

present invention relates to a process according to claim 10, that is, a method for manufacturing a food preparation with mushrooms according to any one of the preceding claims, characterized in that the ingredients
5 are combined according to the following timeline:

- fats and at least one thickening ingredient are first mixed together, then the remaining ingredients are added to the mixture.

The experimentation conducted by the Applicant
10 has in fact determined that this chronological sequence allows to obtain a particularly stable mixture.

At least one liquid ingredient is added to the fat-thickening ingredient mixture before adding other ingredients.

15 In this way, the mixture is particularly homogeneous.

Preferably, said at least one liquid ingredient is selected from: water, mushroom extract, concentrated mushroom extract.

20 After mixing the at least one liquid ingredient, at least one ingredient in powder form is added and is mixed again, so that it is dispersed homogeneously.

The at least one powder ingredient is preferably selected from: mushroom powder, Glucose, Sodium Chloride,
25 Glucone Delta Lactone, Potassium Chloride, Starch.

In general, it is preferable to add more than one

ingredient in powder form, where the powder ingredients are pre-mixed together before being added.

According to some preferred embodiments, in a first step the fats and the at least one thickener, preferably xanthan gum, are mixed together, a predetermined amount of water is added to the mixture thus obtained and it is mixed again until obtaining a cream or frosting, then the following premixed powder ingredients are added: mushrooms, Glucose, Sodium Chloride, Glucone Delta Lactone, Potassium Chloride; the mushroom powder preferably is a dry residue of liquid extract, alternatively the mushrooms can be added in the form of liquid extract, preferably concentrated.

According to a preferred feature of the process, at least a step of mixing occurs at a pressure lower than atmospheric pressure.

In general, it is preferable that, in the case of mushroom extract, it is made by soaking a predetermined amount of mushrooms - preferably dried - in water, and subsequently filtering. The resulting extract is therefore liquid.

The concentrated extract or powder are obtained from the liquid extract by proceeding with the partial or total removal of water by different possible technologies including, for example, freeze-drying or drying.

In any case, it is ensured that the powder or

extract or concentrated extract used in the preparation are free from impurities such as larvae, soil, moss, pine needles, etc.

Further features and advantages of the present invention will appear more clearly from the following detailed description of preferred embodiments thereof, made by way of non-limiting example.

According to some preferred formulations thereof, the food preparation according to the present invention comprises, in weight percentage on the total weight (where the percentages refer to anhydrous ingredients except for water and fat, or where otherwise specified):

EXAMPLE 1 - GENERAL

Mushroom powder from extract: 5% to 20%
Dietary fats (preferably oil or oils): 33% to 45%
Water: 25% to 50%
Xanthan gum: 0.05% to 0.20%
NaCl: 2% to 3%
KCl: 1% to 2%
Glucose: 4% to 6%
Glucone Delta Lactone: 0.3% to 1.5%

This formulation allows to make creams or frosting to make sauces having organoleptic qualities comparable to those made with fresh mushrooms, even though mushroom

powder is used.

Optionally, the preparation can be enriched with other ingredients, such as pumpkin seed oil, for example, in weight percentage on the total weight of between 1% and
5 5%.

EXAMPLE 2 - GENERAL

According to an even more preferred formulation, the food preparation according to the present invention comprises,
10 in weight percentage on the total weight:

Mushroom powder from extract: 10% to 15%

Oil: 33% to 45%

Water: 30% to 40%

15 Xanthan gum: 0.10% to 0.15%

NaCl: 2.2% to 2.7%

KCl: 1% to 1.5%

Glucose: 4.5% to 5.5%

Glucone Delta Lactone: 0.5% to 0.9%

20

EXAMPLE 3 - SPECIFIC

A specific manufacturing example that in first laboratory tests was found to have a particularly balanced taste from the point of view of flavor and acidity, as well as
25 an enhancement of the taste of the mushrooms and a particularly low parameter of water activity for a very

long-life is the following, in weight percentage on the total weight:

Mushroom powder from extract: 22.79%

5 Oil: 31.39%

Water: 38.51%

Xanthan gum: 0.096%

NaCl: 1.93%

KCl: 0.96%

10 Glucose: 2.89%

Glucone Delta Lactone: 1.44%

Coated pumpkin seed oil granules (optional): 2.53%

As will be noted, this specific example has however a very high amount of mushroom powder, it is therefore less preferred.

EXAMPLE 4 - SPECIFIC

Laboratory tests led to the following more detailed formulation, in weight percentage on the total weight, particularly appreciated for its low content of the finest element (mushrooms) with excellent organoleptic and stability features:

25 Mushroom powder from extract: 12.66%

Oil: 39.75%

Water: 35.46%

Xanthan gum: 0.12%

NaCl: 2.43%

KCl: 1.22%

5 Glucose: 5.06%

Glucone Delta Lactone: 0.76%

Coated pumpkin seed oil granules (optional): 2.53%

In order to obtain a cream or frosting from the above
10 formulations, the ingredients were mixed using a robot
equipped with an accessory blender. Following numerous
tests and trials it was realized that in order to achieve
proper mixing of the ingredients and make the most of the
thickening and emulsifying properties of the xanthan gum,
15 it is necessary to follow the chronological order
indicated below:

- introduce the oil/oils;
- add the xanthan gum and mix for a few minutes;
- add water and mix for a few minutes until the formation
20 of a white matt cream or glaze where there are no visible
oil droplets;
- add the remaining anhydrous ingredients (e.g. mushroom
powder, NaCl, KCl, glucose and Glucone Delta Lactone)
previously pre-mixed;
- 25 - mix until a homogeneous cream or icing is obtained.

In general, it is observed that at the end of the mixing process it is possible to perform a mild heat treatment (pasteurization) in order to stabilize the cream or frosting preventing changes in the organoleptic features
5 thereof.

EXAMPLE 5 - SPECIFIC

At an industrial level it may be convenient to
10 use a mushroom extract or a concentrated extract instead of the mushroom powder directly in the production process. Below is an example of this application:

In a first step, a mushroom extract is obtained that is subsequently concentrated to obtain a degree brix
15 comprised between 15 and 50, or more preferably between 15 and 40, for example, 26.3 degrees brix.

The next step is to mix the fats with the xanthan gum and optionally add a predetermined amount of water. The concentrated mushroom extract and the remaining
20 anhydrous ingredients in premixed powders are added to the mixture thus obtained. Mixing is then carried out, preferably at a pressure lower than atmospheric pressure, for example -980 mbar.

In general, the extraction is carried out using
25 dried mushrooms, for example, Boletus, immersed in water with a weight ratio of mushrooms/water comprised between

1:8 and 1:12, preferably equal to 1:10. The mushrooms are kept in bath at a temperature comprised between 70 and 80 °C, preferably 75 °C, for a time comprised between 30 and 100 minutes, preferably 30, 60 or 85 minutes.

5 The hydration water is an extract and undergoes a sequence of filtrations through a series of filters with increasing retaining capacity. For example, filters are used with ability to retain elements of size greater than 1mm, 180µm, 150µm, 105µm.

10 It is noted that by "filter" it is meant here any device capable of retaining elements with a size greater than a predetermined size, if needed it therefore includes both actual filters and sieves and/or sifters.

15 OTHER POSSIBLE RECIPES
weight percentages on the total weight

	RECIPE 6	RECIPE 7	RECIPE 8	RECIPE 9
a_w	0.925			
water	[20-60]%			
Liquid extract of dried mushroom (BRIX)	49% ([15-50])	47% ([15-50])	47% ([15-50])	47% ([15-50])
oil	45%	43%	43%	43%
glucose	0	0	0	0

starch	0	0	0	0
dextrose	1.5%	4.5%	4.5%	4.5%
sodium chloride (NaCl)	0.5%	0.5%	0.5%	0.5%
potassium chloride (KCl)	0.2%	1.74%	1.74%	1.74%
glucone	1.60%	1.60%	2.80%	3.80%
xanthan	0.16%	0.16%	0.16%	0.16%
honey	1%	1%	1%	1%
porcino mushroom flavor	0.3%	0.3%	0.3%	0.3%
Flavor enhancer	0.1-2%	0.1-2%	0.1-2%	0.1-2%
rosemary	0.2%	0.2%	0.2%	0.2%

In general, it is noted that in each receipt it is possible to add a percentage of simple and complex sugars, for example less than or equal to 15% by weight on the total weight. More preferably, honey is used.

Also in general, it is noted that it is possible to add yeast and/or flavorings to reduce the a_w and enhance the flavor.

In general, the a_w according to the present invention is between 0.9 and 0.925.

Still in general, the pH of the recipes according to the present invention is between 3.5 and 3.9.

As regards the rheological appearance, the creams or icings indicated in the examples have rheological

parameters determined to 1 Hz frequency defined by a complex viscosity (Pa*s) comprised between 10 and 25, a parameter G' (Pa) between 70 and 130, a parameter G'' (Pa) between 20 and 45 where G' and G'' are known as accumulation modulus or elastic modulus and dissipative modulus or viscous modulus respectively.

The Applicant, however, has experimented as acceptable rheological values which fall at least up to the following ranges:

10 rheological parameters determined at 1 Hz frequency defined by a complex viscosity (Pa*s) between 10 and 100, a parameter G' (Pa) between 60 and 600, a parameter G'' (Pa) between 15 and 120.

15 However, compositions that fall within the broadest ranges of rheological values given in the preamble are not excluded, which define more generally the frosting/cream condition of interest.

It is clear that a man skilled in the art may make several changes and variants to the exemplary 20 embodiments and variants described above in order to meet specific and incidental application requirements, among which for example the combination of said embodiments and variants, all falling within the scope of protection of the present invention as defined in the following claims.

25

CLAIMS

1. Food preparation with mushrooms, characterized in that it comprises, in weight percentage on the total weight, 20% to 60% dietary fats, 5% to 40% mushrooms
5 calculated in dry residue condition, 20% to 60% water, and at least one thickening ingredient, the percentage of mushrooms considered in the dry residue condition derives from the presence of a liquid extract of mushroom, preferably concentrated, and/or mushroom powder and/or a
10 dry residue resulting from a mushroom extract, where in case a liquid extract of mushroom is used in the formulation, its percentage of water is herein considered included in the total percentage of water.

2. Food preparation according to claim 1,
15 characterized in that the percentage of mushrooms derives from the presence of dried mushrooms and/or a derivative thereof.

3. Food preparation according to the preceding claim, characterized in that it comprises, in weight
20 percentage on the total weight, 31% to 49% dietary fats, 5% to 35% mushrooms calculated in dry residue condition, 25% to 49% water.

4. Food preparation according to any one of the preceding claims, characterized in that the at least one
25 thickening ingredient comprises xanthan gum.

5. Food preparation according to any one of the

preceding claims, characterized in that the total amount of thickening ingredient, or a combination of thickening ingredients, if more than one is present, in weight percentage on the total weight, is less than or equal to 5 6 %, more preferably less than or equal to 2.5%, where the xanthan gum, if present, is preferably less than or equal to 0.20%.

6. Food preparation according to any one of the preceding claims, characterized in that it comprises at 10 least two ingredients capable of lowering the water activity (a_w) selected from NaCl, KCl, glucose, starch.

7. Food preparation according to claim 6, characterized in that it comprises, in weight percentage on the total weight, NaCl less than or equal to 5%, KCl 15 less than or equal to 4%, Glucose less than or equal to 8%, starch less than or equal to 6% or absent.

8. Food preparation according to any one of the preceding claims, characterized in that it comprises Glucone Delta Lactone.

20 9. Food preparation according to claim 8, characterized in that, in weight percentage on the total weight, the Glucone Delta Lactone is less than or equal to 3%.

25 10. Food preparation according to any one of the preceding claims, characterized in that it has the appearance of a homogeneous mixture with creamy or

frosting texture.

11. Food preparation according to any one of the preceding claims, characterized in that, characterized in that it has a pH of between 3.5 and 3.9.

5 12. A process for making a food preparation with mushrooms according to any one of the preceding claims, characterized in that the ingredients are combined according to the following temporal sequence:

- fats and at least one thickening ingredient are
10 first mixed together, then the mushrooms in the form of powder of dried mushrooms, or powder derived from an extract or a liquid extract, are added add to the mixture.

13. Process according to the preceding claim,
15 characterized in that the extract is an extract of dried mushrooms.

14. Process according to claim 12 or 13, characterized in that at least one liquid ingredient is added to the fats-thickener mixture before adding other
20 ingredients.

15. Process according to the preceding claim, characterized in that said at least one liquid ingredient is selected from: water, mushroom extract, concentrated mushroom extract.

25 16. Process according to claim 14 or 15, characterized in that after mixing the at least one

liquid ingredient, at least one powder ingredient is added.

17. Process according to claim 16, characterized in that the at least one powder ingredient is selected
5 from: mushroom powder, mushroom powder obtained from extract, Glucose, Sodium Chloride, Glucone Delta Lactone, Potassium Chloride, starch.

18. Process according to claim 16 or 17, characterized in that more than one ingredient in powder
10 form is added, where the powder ingredients are premixed together before being added.

19. Process according to the preceding claim, characterized in that in a first step the fats and the at least one thickener are mixed together, a predetermined
15 amount of water is added to the mixture thus obtained and it is mixed again until obtaining a cream or frosting, then the following premixed powder ingredients are added: mushrooms, Glucose, Sodium Chloride, Glucone Delta Lactone, Potassium Chloride; the mushroom powder
20 preferably is a dry residue of liquid extract, alternatively the mushrooms can be added directly in the form of liquid extract, preferably concentrated.

20. Process according to any one of claims 12 to 19, characterized in that at least one mixing step occurs
25 at a pressure lower than the atmospheric pressure.