§ 172.155 Natamycin (pimaricin).

(a) Natamycin (CAS Reg. No. 7681–93–8), also known as pimaricin, is a polyene macrolide antimycotic substance possessing an empirical formula of \(\text{C}_{33}\text{H}_{47}\text{NO}_{13}\) and a molecular weight of 665.7.

(b) The additive shall conform to the following specifications:

- Purity: 97 percent ± 2 percent on an anhydrous basis.
- Arsenic: Not more than 1 part per million.
- Heavy metals (as Pb): Not more than 20 parts per million.

(c) The additive may be applied on cheese, as an antimycotic, in amounts not to exceed 20 milligrams per kilogram (20 parts per million) in the finished product as determined by International Dairy Federation (IDF) Standard 140A:1992, “Cheese and Cheese Rind-Determination of Natamycin Content-Method by Molecular Absorption Spectrometry and by High-Performance Liquid Chromatography,” which is incorporated by reference. The Director of the Office of the Federal Register approves this incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies are available from the Division of Product Policy (HFS–206), Center for Food Safety and Applied Nutrition, Food and Drug Administration, 5100 Paint Branch Pkwy., College Park, MD 20740, or may be examined at the Center for Food Safety and Applied Nutrition’s Library, 5100 Paint Branch Pkwy., College Park, MD 20740, or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: [http://www.archives.gov/federal_register/ code_of_federal_regulations/ibr_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).


§ 172.165 Quaternary ammonium chloride combination.

The food additive, quaternary ammonium chloride combination, may be safely used in food in accordance with the following conditions:

(a) The additive contains the following compounds:

- \(n\)-dodecyl dimethyl benzyl ammonium chloride (CAS Reg. No. 122–18–9);
- \(n\)-octadecyl dimethyl benzyl ammonium chloride (CAS Reg. No. 122–19–0);
- \(n\)-tetradecyl dimethyl benzyl ammonium chloride (CAS Reg. No. 139–08–2);

(b) The additive meets the following specifications:

- pH (5 percent active solution): 7.0–8.0;
- Total amines, maximum 1 percent as combined free amines and amine hydrochlorides.

(c) The additive is used as an antimicrobial agent, as defined in §170.3(o)(2) of this chapter, in raw sugar cane juice. It is added prior to clarification when further processing of the sugar cane juice must be delayed.

(d) The additive is applied to the sugar juice in the following quantities, based on the weight of the raw cane:

<table>
<thead>
<tr>
<th>Component</th>
<th>Parts per million</th>
</tr>
</thead>
<tbody>
<tr>
<td>(n)-Dodecyl dimethyl benzyl ammonium chloride</td>
<td>0.25–1.0</td>
</tr>
<tr>
<td>(n)-Dodecyl dimethyl ethylbenzyl ammonium chloride</td>
<td>3.4–13.5</td>
</tr>
<tr>
<td>(n)-Octadecyl dimethyl benzyl ammonium chloride</td>
<td>1.5–6.0</td>
</tr>
<tr>
<td>(n)-Hexadecyl dimethyl benzyl ammonium chloride</td>
<td>3.0–12.0</td>
</tr>
<tr>
<td>(n)-Tetradecyl dimethyl benzyl ammonium chloride</td>
<td>0.25–1.0</td>
</tr>
<tr>
<td>(n)-Tetradecyl dimethyl ethylbenzyl ammonium chloride</td>
<td>1.6–6.5</td>
</tr>
</tbody>
</table>

[50 FR 3890, Jan. 29, 1985]

§ 172.167 Silver nitrate and hydrogen peroxide solution.

An aqueous solution containing a mixture of silver nitrate and hydrogen peroxide may be safely used in accordance with the following prescribed conditions:

(a) The additive is used as an antimicrobial agent in bottled water.

§ 172.160 Potassium nitrate.

The food additive potassium nitrate may be safely used as a curing agent in the processing of cod roe, in an amount not to exceed 200 parts per million of the finished roe.

§ 172.165 Quaternary ammonium chloride combination.

The food additive, quaternary ammonium chloride combination, may be safely used in food in accordance with the following conditions:

(a) The additive contains the following compounds:

- \(n\)-dodecyl dimethyl benzyl ammonium chloride (CAS Reg. No. 122–18–9);
- \(n\)-octadecyl dimethyl ethylbenzyl ammonium chloride (CAS Reg. No. 27479–28–3);
- \(n\)-hexadecyl dimethyl benzyl ammonium chloride (CAS Reg. No. 122–19–0);
- \(n\)-tetradecyl dimethyl benzyl ammonium chloride (CAS Reg. No. 139–08–2);

(b) The additive meets the following specifications:

- pH (5 percent active solution): 7.0–8.0;
- Total amines, maximum 1 percent as combined free amines and amine hydrochlorides.

(c) The additive is used as an antimicrobial agent, as defined in §170.3(o)(2) of this chapter, in raw sugar cane juice. It is added prior to clarification when further processing of the sugar cane juice must be delayed.

(d) The additive is applied to the sugar juice in the following quantities, based on the weight of the raw cane:

<table>
<thead>
<tr>
<th>Component</th>
<th>Parts per million</th>
</tr>
</thead>
<tbody>
<tr>
<td>(n)-Dodecyl dimethyl benzyl ammonium chloride</td>
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<td>0.25–1.0</td>
</tr>
<tr>
<td>(n)-Tetradecyl dimethyl ethylbenzyl ammonium chloride</td>
<td>1.6–6.5</td>
</tr>
</tbody>
</table>

[50 FR 3890, Jan. 29, 1985]
§ 172.170  [21 CFR Ch. I (4–1–14 Edition)]

(b) Hydrogen peroxide meets the specifications of the Food Chemicals Codex, 7th ed. (2010), pp. 496–497, which is incorporated by reference. The Director of the Office of the Federal Register approves this incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You may obtain copies from the United States Pharmacopeial Convention, 12601 Twinbrook Pkwy., Rockville, MD 20852 (Internet address http://www.usp.org). Copies may be examined at the Food and Drug Administration’s Main Library, 10903 New Hampshire Ave., Bldg. 2, Third Floor, Silver Spring, MD 20993, 301–796–2039, or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030 or go to: http://www.archives.gov/federal-register/code_of_federal_regulations/ibr_locations.html.

(c) The amount of silver added will not exceed 17 micrograms per kilogram in the treated bottled water, and the amount of hydrogen peroxide will not exceed 23 milligrams per kilogram in the treated bottled water. Analyses for silver and hydrogen peroxide shall be conducted on samples of the water intended for treatment for the blank determination.


(2) The amount of hydrogen peroxide in the treated bottled water is determined using a Hydrogen Peroxide Test Kit from the HACH Co., or equivalent. The manual from the Hydrogen Peroxide Test Kit, Model HYP–1, Catalog Number 22917–00, is incorporated by reference. The Director of the Federal Register approves this incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. You may obtain copies of the test kit manual from the HACH Co., P.O. Box 389, Loveland CO, 80539 (1–800–227–4224), Model HYP–1, Catalog Number 22917–00. Copies may be examined at the Center for Food Safety and Applied Nutrition’s Library, Food and Drug Administration, 5100 Paint Branch Pkwy., College Park, MD 20740, 301–436–2163, or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030 or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

(e) Substances generally recognized as safe in or on food may be used to stabilize the additive to ensure that the additive will perform its intended technical effect.

(f) The additive may not be added to bottled water that has been filtered or is intended to be filtered through a silver-containing water filter.

(g) Bottled water must meet the quality standards for bottled water in §165.110(b)(2) through (b)(5) of this chapter, including the limits specified for total silver and nitrate, unless the water bears a label statement of substandard quality, as provided for under §165.110(c) of this chapter.

[74 FR 11478, Mar. 18, 2009, as amended at 78 FR 71461, Nov. 29, 2013]

§ 172.170  Sodium nitrate.

The food additive sodium nitrate may be safely used in or on specified foods in accordance with the following prescribed conditions:

(a) It is used or intended for use as follows:

(1) As a preservative and color fixative, with or without sodium nitrite, in smoked, cured sablefish, smoked, cured salmon, and smoked, cured shad, so that the level of sodium nitrate does not exceed 500 parts per million and the level of sodium nitrite does not exceed 200 parts per million in the finished product.

(2) As a preservative and color fixative, with or without sodium nitrite, in meat-curing preparations for the home curing of meat and meat products (including poultry and wild game), with directions for use which limit the amount of sodium nitrate to not more than 500 parts per million and the level of sodium nitrate does not exceed 200 parts per million in the finished product.

(b) To assure safe use of the additive, in addition to the other information required by the Act:

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