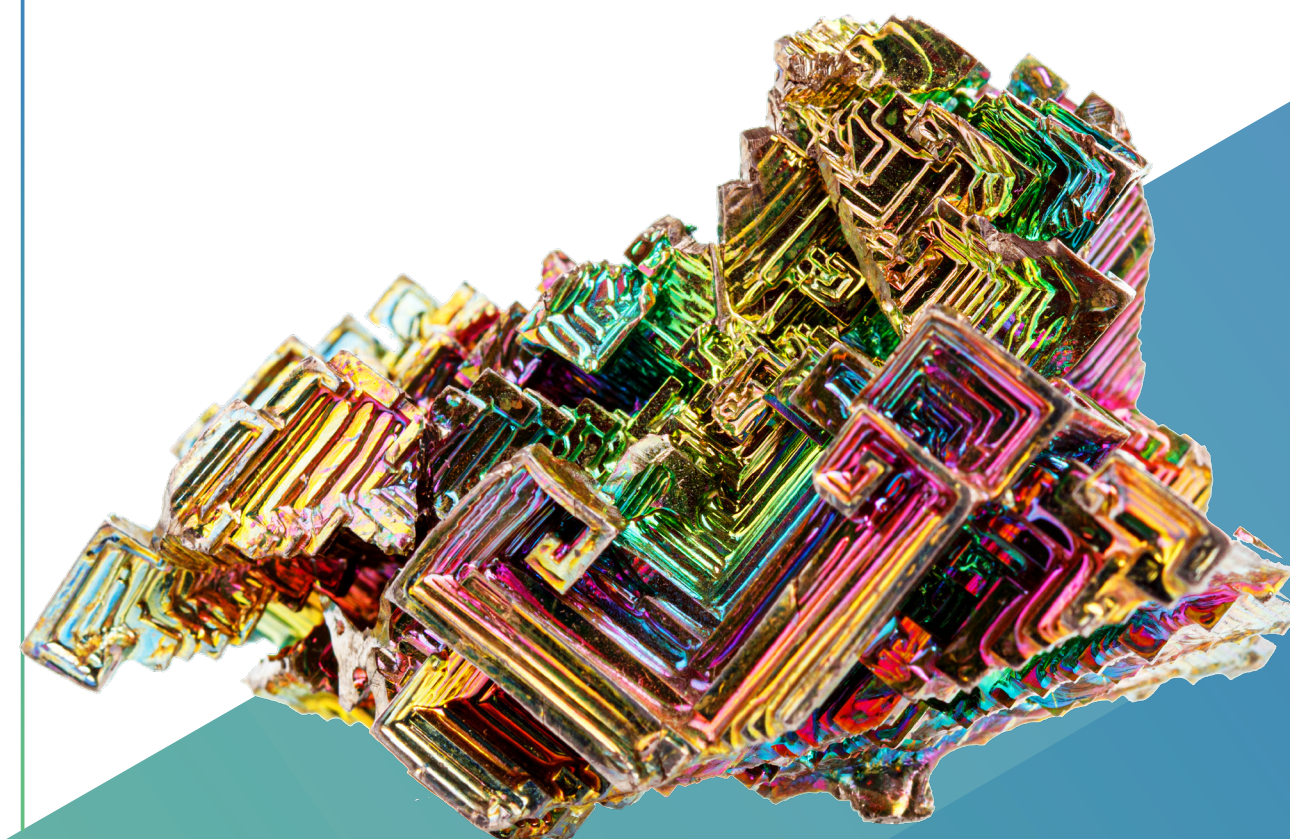


# THE BISMUTH PHARMACEUTICAL SPECIALIST



CONTACT US



OCB Pharmaceutical S.R.L.  
Carles Buhigas 5A,  
Pol. Ind. Can Castells,  
08240 Canovelles,  
Barcelona, Spain

Tel: +34 938404550  
Fax: +34 938496800  
Email: [info@ocb-pharmaceutical.com](mailto:info@ocb-pharmaceutical.com)  
Web: [www.ocb-pharmaceutical.com](http://www.ocb-pharmaceutical.com)

[www.ocb-pharmaceutical.com](http://www.ocb-pharmaceutical.com)

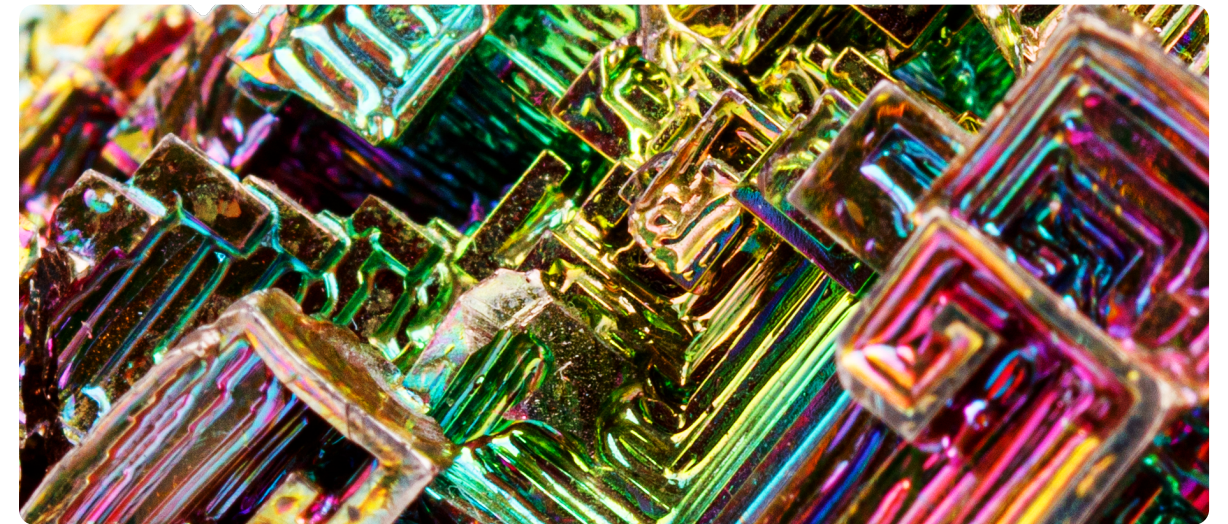




*Our aim is to thoroughly understand your needs, and to meet your expectations on a long-term basis.*

## ABOUT US

### From Earth to API



OCB Pharmaceutical, formerly known as Omicron Quimica S.L., is a firm active in Bismuth Chemical production since 1982. We are a pure bismuth compound manufacturer based in Barcelona (Spain), focusing on pharmaceutical and high-performance specialty products.

### Solutions For Tomorrow's Technology



In 2019, OCB Pharmaceutical established a strategic partnership with Vital Group that allows our business to adapt to market variations and be more competitive in our sector. They are the world's leading key producer of gallium, indium, germanium, bismuth, and cadmium products.

[www.ocb-pharmaceutical.com](http://www.ocb-pharmaceutical.com)



## PRODUCTS

- Bismuth Subsalicylate
- Bismuth Subnitrate
- Bismuth Citrate
- Colloidal Bismuth Subcitrate
- Bismuth Tribromophenate
- Bismuth Subgallate
- Bismuth Subcarbonate
- Bismuth Sodium Tartrate



## APPLICATIONS

### PHARMACEUTICAL

- Treatment of Helicobacter Pylori
- Antihaemorrhoid
- Antiseptic Ointments
- Teat Sealant
- Stomach disorders



### COSMETIC

- Hair Dye
- Eye Shadow
- Lip Stick
- Nail Polish
- Creams



### INDUSTRIAL

- Flame Retardant
- Electronic
- Ceramic Frits
- Automotive Coatings
- Fireworks





# BISMUTH SUBSALICYLATE MICRONIZED/ USP

OCB CODE: 0244

## SYNONYMS:

(2-Hydroxybenzoato-O<sup>1</sup>)-Oxobismuth;  
2- Hydroxybenzoic Acid Bismuth (3+) salt, Basic.

## FORMULA:

C<sub>7</sub>H<sub>5</sub>BiO<sub>4</sub>

## MOLECULAR WEIGHT:

362.09

| Determinations                 | Specifications  | Typical              |
|--------------------------------|---|----------------------|
| Appearance                     | Fine to off-white, microcrystalline, odorless, tasteless powder                                 | Conform              |
| Solubility                     | Practically insoluble in water, in alcohol, and in ether. Reacts with alkalis and mineral acids | Conform              |
| Identification                 | A. IR<br>B. Bismuth   | Conform<br>Pass test |
| pH                             | 2.7 – 5.0   | 3.5                  |
| Loss on drying                 | ≤ 1.0%  | 0.1%                 |
| Nitrate                        | ≤ 0.4%  | ≤ 0.4%               |
| Arsenic                        | ≤ 10 ppm  | ≤ 10 ppm             |
| Free salicylic acid            | ≤ 0.2%  | 0.1%                 |
| Copper                         | ≤ 10 ppm  | <0.7 ppm             |
| Lead                           | ≤ 10 ppm  | <0.5 ppm             |
| Silver                         | ≤ 10 ppm  | <0.1 ppm             |
| Soluble Bismuth                | ≤ 40 ppm  | < 1 ppm              |
| Bismuth content (odb)          | 56.0-59.4%  | 57.8%                |
| Total salicylate content (obd) | 36.5-39.3%  | 37.4%                |
| Residual solvents              | No solvents used  | No solvents used     |
| Average particle size          | ≤ 5 μm  | 4 μm                 |

## PACKAGE :

25 Kg. kraft drums

# BISMUTH SUBSALICYLATE MICRONIZED / EP

OCB CODE: 0244

## SYNONYMS:

(2-Hydroxybenzoato-O<sup>1</sup>)-Oxobismuth;  
2- Hydroxybenzoic Acid Bismuth (3+) salt, Basic.

## FORMULA:

C<sub>7</sub>H<sub>5</sub>BiO<sub>4</sub>

## MOLECULAR WEIGHT:

362.09

| Determinations        | Specifications  | Typical                |
|-----------------------|---|------------------------|
| Appearance            | White or almost white powder  | Conform                |
| Solubility            | Practically insoluble in water and in alcohol. It dissolves in mineral acids with decomposition | Conform                |
| Identification        | A. Salicilates<br>B. Bismuth  | Pass test<br>Pass test |
| Acidity               | Test  | Pass test              |
| Bismuth content odb   | 56.0 – 59.4%  | 57.8%                  |
| Chloride              | ≤200 ppm  | ≤200 ppm               |
| Nitrate               | ≤0.4 %  | ≤0.4%                  |
| Silver                | ≤25 ppm   | <0.1 ppm               |
| Copper                | ≤50 ppm   | <0.7 ppm               |
| Lead                  | ≤20 ppm   | <0.5 ppm               |
| Soluble Bismuth       | ≤40 ppm   | <1 ppm                 |
| Loss on drying        | ≤1.0%   | 0.1%                   |
| Average particle size | ≤5 μm   | 4 μm                   |

## PACKAGE :

25 Kg Kraft drums



# BISMUTH SUBNITRATE / EUROPEAN PH.

OCB CODE: 0200

**SYNONYMS:**

Bismuth Hydroxide Nitrate Oxide; Bismuth Nitrate, Basic; Bismuth Oxynitrate; Bismuto Subnitricum; Bismuthyl Nitrate; Bismuth White; Magistery of Bismuth; Novismuth; Paint White; Spanish White.

**FORMULA:**

4[BiNO<sub>3</sub>(OH)<sub>2</sub>] · BiO(OH)

**MOLECULAR WEIGHT:**

1462

| Determinations                         | Specifications   | Typical   |
|--|--|-----------|
| Appearance                             | White or almost white powder   | Conform   |
| Solubility                             | Practically insoluble in water and in alcohol 96%. It dissolves in mineral acids with decomposition. | Conform   |
| Identification                         | Test A, B. Bismuth, C. Nitrates, D   | Pass test |
| Acidity                                | Test   | Pass test |
| Chloride                               | ≤ 200 ppm  | ≤ 200 ppm |
| Lead                                   | ≤ 20 ppm   | < 0.5 ppm |
| Copper                                 | ≤ 50 ppm   | < 0.7 ppm |
| Silver                                 | ≤ 25 ppm   | < 0.1 ppm |
| Non precipitated Substances in ammonia | ≤ 1.0%   | 0.2%      |
| Loss on drying                         | ≤ 3.0%   | 1.2%      |
| Bismuth content (odb)                  | 71.0-74.0%   | 72.5%     |

**PACKAGE :**

25 Kg. kraft drums

# BISMUTH SUBNITRATE / USP

OCB CODE: 0200

**SYNONYMS:**

Bismuth Hydroxide Nitrate Oxide; Bismuth Nitrate, Basic; Bismuth Oxynitrate; Bismuto Subnitricum; Bismuthyl Nitrate; Bismuth White; Magistery of Bismuth; Novismuth; Paint White; Spanish White.

**FORMULA:**

Bi<sub>5</sub>O(OH)<sub>9</sub>(NO<sub>3</sub>)<sub>4</sub>

**MOLECULAR WEIGHT:**

1461.99

| Determinations            | Specifications  | Typical          |
|---------------------------|---|------------------|
| Appearance                | White, slightly hygroscopic powder  | Conform          |
| Solubility                | Practically insoluble in water and in alcohol; readily dissolved by hydrochloric acid or by nitric acid | Conform          |
| Identification            | Bismuth Nitrate   | Pass test        |
| Oxide Bismuth Content odb | ≥79.0%  | 80.7%            |
| Loss on drying            | ≤3.0%   | 1.2%             |
| Carbonate                 | Test  | Pass test        |
| Chloride                  | ≤350 ppm  | ≤350 ppm         |
| Sulphate                  | Test  | Pass test        |
| Copper                    | Test  | Pass test        |
| Silver                    | Test  | Pass test        |
| Lead                      | Test  | Pass test        |
| Arsenic                   | ≤8 ppm  | ≤8 ppm           |
| Ammonium salts            | Test  | Pass test        |
| Alkali and alkaline earth | ≤0.5%   | 0.2%             |
| Residual Solvents         | No solvents used  | No solvents used |

**PACKAGE :**

25 Kg kraft drums





# BISMUTH CITRATE / TECH-B

OCB CODE: 0235

**SYNONYMS:**  
Citric Acid Bismuth Salt / Monobismuthyl Citric Acid

**FORMULA:**  
 $\text{BiC}_6\text{H}_5\text{O}_7$

**MOLECULAR WEIGHT:**  
398.08

| Determinations        | Specifications        | Typical               |
|-----------------------|-----------------------|-----------------------|
| Appearance            | Crystalline powder    | Conform               |
| Colour                | White                 | Conform               |
| Loss on drying        | $\leq 1.0\%$          | 0.2%                  |
| Bismuth content (odb) | 49.0%-54.0%           | 52.4%                 |
| Arsenic               | $\leq 10 \text{ ppm}$ | $\leq 10 \text{ ppm}$ |
| Copper                | $\leq 50 \text{ ppm}$ | $<0.7 \text{ ppm}$    |
| Lead                  | $\leq 20 \text{ ppm}$ | $<0.5 \text{ ppm}$    |

**PACKAGE :**  
450 Kg Big bags / 25 Kg Kraft drums



# BISMUTH CITRATE / USPSB

OCB CODE: 0235

**SYNONYMS:**  
Bismuth Subcitrate

**FORMULA:**  
 $\text{BiC}_6\text{H}_5\text{O}_7$

**MOLECULAR WEIGHT:**  
398.08

| Determinations  | Specifications  | Typical   |
|-----------------|---|-----------|
| Appearance      | White powder  | Conform   |
| Solubility      | Soluble in ammonia 10% and in solutions of alkali citrates Insoluble in water and Ethanol | Conform   |
| Identification  | A. IR   | Pass test |
|                 | Test B  | Pass test |
|                 | Test C  | Pass test |
| Arsenic         | $\leq 10 \text{ ppm}$   | $\leq 10$ |
| Nitrates        | Test  | Pass test |
| Copper          | $\leq 10 \text{ ppm}$   | $\leq 10$ |
| Lead            | $\leq 10 \text{ ppm}$   | $\leq 10$ |
| Silver          | $\leq 10 \text{ ppm}$   | $\leq 10$ |
| Bismuth content | 49 - 54%  | 52%       |

**PACKAGE :**  
450 kg Big bags/ 25 kg kraft drums



## COLLOIDAL BISMUTH SUBCITRATE (TDB) / KOREAN PH.

OCB CODE: 0226

### SYNONYMS:

Tripotassium Dicitrate Bismuthate; T.D.B.

### FORMULA:

$\text{Bi}_6\text{K}_{12}\text{N}_8\text{C}_{54}\text{H}_{87}\text{O}_{79}$

### MOLECULAR WEIGHT:

3835.36

| Determinations              | Specifications | Typical        |
|-----------------------------|----------------|----------------|
| Appearance                  | White powder   | Conform        |
| Identification              | Bismuth        | Pass test      |
|                             | Citrate        | Pass test      |
|                             | Potassium      | Pass test      |
| pH (10%)                    | 6.0-8.0        | 7.2            |
| Clarity of solution         | Test           | Pass test      |
| Chloride                    | $\leq 0.018\%$ | $\leq 0.018\%$ |
| Loss on drying              | $\leq 5.0\%$   | 3.3%           |
| Bismuth oxide content (odb) | 39.0-42.0%     | 41.0%          |
| Potassium content (odb)     | 10.8-13.2%     | 12.1%          |

### PACKAGE :

25 Kg kraft drums

## BISMUTH TRIBROMOPHENATE / SP10

OCB CODE: 0258

### SYNONYMS:

Tris (2,4,6-Tribromophenoxy) Bismuthine; Bismuth Tribromophenol; Tribromophenol Bismuth; Sigmaform; Xeroform.

### FORMULA:

$\text{C}_{12}\text{H}_5\text{Bi}_3\text{Br}_6\text{O}_6$

### MOLECULAR WEIGHT:

1351.6

| Determinations        | Specifications  | Typical   |
|-----------------------|---|-----------|
| Appearance            | Bright yellow fine amorphous powder with a faint specific odour         | Conform   |
| Solubility            | Test, practically insoluble in water, alcohol 95%, ether and chloroform | Pass test |
| Identification        | Test  | Pass test |
| Bismuth oxide content | 50.0-55.0%  | 52.4%     |
| Arsenic and Tellurium | Test  | Pass test |
| Free Tribromophenol   | Test  | Pass test |

### PACKAGE :

25 Kg Kraft drums



# BISMUTH SUBGALLATE / EUROPEAN PH.

OCB CODE: 0231

**SYNONYMS:**

Gallic acid bismuth basic salt; bismuth gallate, basic; B.S.G.; Dermatol

**FORMULA:**

C<sub>7</sub>H<sub>5</sub> BiO<sub>6</sub>

**MOLECULAR WEIGHT:**

394.09

| Determinations                         | Specifications   | Typical   |
|--|--|-----------|
| Appearance                             | Yellow powder  | Conform   |
| Solubility                             | Practically insoluble in water and in alcohol. It dissolves in mineral acids with decomposition and in solutions of alkali hydroxides, producing a reddish-brown liquid. | Conform   |
| Identification                         | Test A, B  | Pass test |
| Loss on drying                         | ≤ 7.0%   | 3.6%      |
| Bismuth content (odb)                  | 48.0-51.0%   | 49.2%     |
| Acidity                                | Test   | Pass test |
| Chloride                               | ≤ 200 ppm  | ≤ 200 ppm |
| Nitrate                                | ≤ 0.2%   | ≤ 0.2%    |
| Silver                                 | ≤ 25 ppm   | <0.1 ppm  |
| Copper                                 | ≤ 50 ppm   | <0.7 ppm  |
| Non precipitated substances in ammonia | ≤ 1.0%   | 0.1%      |
| Lead                                   | ≤ 20 ppm   | <0.5 ppm  |

**PACKAGE :**

25 Kg Kraft drums

# BISMUTH SUBGALLATE / USP

OCB CODE: 0231

**SYNONYMS:**

Gallic Acid Bismuth Basic Salt; Bismuth Gallate, Basic; B.S.G.; Dermatol

**FORMULA:**

C<sub>7</sub>H<sub>5</sub> BiO<sub>6</sub>

**MOLECULAR WEIGHT:**

394.09

| Determinations             | Specifications   | Typical                |
|----------------------------|--|------------------------|
| Appearance                 | Amorphous, bright yellow powder. Is odorless and tasteless. Is stable in air, but is affected by light   | Conform                |
| Solubility                 | Dissolves readily with decomposition in warm, moderately dilute hydrochloric, nitric, or sulfuric acid; readily dissolved by solutions of alkali hydroxides, forming a clear, yellow liquid that rapidly assumes a deep red color. Practically insoluble in water, in alcohol, in chloroform, and in ether; insoluble in very dilute mineral acids | Conform                |
| Identification             | A. Bismuth<br>B.   | Pass test<br>Pass test |
| Bismuth oxide content odb  | 52.0 – 57.0%   | 54.8%                  |
| Loss on drying             | ≤7.0%  | Pass test              |
| Nitrate                    | Test   | ≤200 ppm               |
| Arsenic                    | ≤7.5 ppm   | ≤0.2%                  |
| Copper                     | Test   | Pass test              |
| Silver                     | Test   | Pass test              |
| Lead                       | Test   | Pass test              |
| Free gallic acid           | ≤0.5%  | 0.1%                   |
| Alkali and alkaline earths | ≤0.5%  | 0.2%                   |

**PACKAGE :**

25 Kg Kraft drums



# BISMUTH SUBCARBONATE / EUROPEAN PH.

OCB CODE: 0227

**SYNONYMS:**  
Bismuth carbonate, Basic; Bismuth oxycarbonate

**FORMULA:**  
(BiO)<sub>2</sub>CO<sub>3</sub>

**MOLECULAR WEIGHT:**  
509.97

| Determinations             | Specifications   | Typical                |
|----------------------------|--|------------------------|
| Appearance                 | White or almost white powder   | Conform                |
| Solubility                 | Practically insoluble in water and in ethanol 96%. It dissolves with effervescence in mineral acids. | Conform                |
| Identification             | A. Carbonate<br>B. Bismuth   | Pass test<br>Pass test |
| Appearance of solution     | Test   | Pass test              |
| Chloride                   | ≤ 500 ppm  | ≤ 500 ppm              |
| Nitrate                    | ≤ 0.4 %  | ≤ 0.4 %                |
| Alkalis and alkaline-earth | ≤ 1.0 %  | 0.4 %                  |
| Arsenic                    | ≤ 5 ppm  | ≤ 5 ppm                |
| Copper                     | ≤ 50 ppm   | <0.7 ppm               |
| Lead                       | ≤ 20 ppm   | <0.5 ppm               |
| Silver                     | ≤ 25 ppm   | <0.1 ppm               |
| Loss on drying             | ≤ 1.0 %  | 0.1 %                  |
| Bismuth content (odb)      | 80.0 – 82.5 %  | 81.4 %                 |

**PACKAGE :**  
25 Kg Kraft drums

# BISMUTH SUBCARBONATE / USP

OCB CODE: 0227

**SYNONYMS:**  
Bismuth Carbonate, Basic; Bismuth Oxycarbonate

**FORMULA:**  
(BiO)<sub>2</sub>CO<sub>3</sub>

**MOLECULAR WEIGHT:**  
509.97

| Determinations                   | Specifications   | Typical          |
|----------------------------------|--|------------------|
| Appearance                       | White or almost white powder   | Conform          |
| Solubility                       | Practically insoluble in water, in alcohol, and in ether. Dissolves in dilute acids with effervescence | Conform          |
| Identification                   | A. Bismuth and Carbonate   | Pass test        |
| Nitrate                          | ≤0,4%  | ≤0,4%            |
| Loss on drying                   | ≤1,0%  | 0,1%             |
| Chloride                         | ≤500 ppm   | ≤500 ppm         |
| Copper                           | ≤50 ppm  | <0.7 ppm         |
| Silver                           | ≤25 ppm  | <0.1 ppm         |
| Lead                             | ≤20 ppm  | <0.5 ppm         |
| Arsenic                          | ≤5 ppm   | ≤5 ppm           |
| Alkalis and alkaline earths      | ≤1,0 %   | 0,4%             |
| Bismuth Subcarbonate content odb | 97,6 – 100,7%  | 99,3%            |
| Residual solvents                | No solvents used   | No solvents used |

**PACKAGE :**  
25 Kg Kraft drums



# BISMUTH SODIUM TARTRATE / STANDARD

OCB CODE: 0263

**SYNONYMS:**

Sodium Bismuth Tartrate; Sodium Bismuthil Tratrte;  
Tartaric Acid Bismuth Complex Sodium Salt; Natrol; Tartrol.

**FORMULA:**

—

**MOLECULAR WEIGHT:**

—

| Determinations  | Specifications                              | Typical   |
|-----------------|---|-----------|
| Appearance      | White or slightly yellow crystalline powder | Conform   |
| Solubility      | Test  | Pass test |
| Identification  | A. Bismuth                                  | Pass test |
|                 | B. Sodium, Tartrate                         | Pass test |
| Bismuth content | 35.0-42.0%                                  | 38.4%     |
| Arsenic         | ≤ 2 ppm                                     | ≤ 2 ppm   |
| Copper          | Test  | Pass test |
| Lead            | ≤ 50 ppm                                    | ≤ 50 ppm  |
| Nitrates        | Test  | Pass test |

**PACKAGE :**

25 Kg Kraft drums



*“From Barcelona to the world”*

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SPECIALIST**

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