Sensorial evaluations:

|  |  |
| --- | --- |
| **Appearance** | Clear viscous syrupy liquid, without admixtures and foreign inclusions |
| **Colour** | Dark red without brownish hue |
| **Taste** | Typical for cherry juice, slightly changed within the thermal processing, without off-tastes |
| **Flavour** | Neutral, with light cherry flavor, without off-flavour |

Analytical specifications:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **In the source product** | **Unit** | **Min** | **Target** | **Max** | **Test method** | | |  | | --- | | Remarks | |
| Soluble solids content | ˚Brix refr. | 65,0 |  |  | GOST 28562 | | COA1 |
| Titrable acidity (as malic acid @ pH 8,1 end-point) | % | 4,0 |  |  | DSTU 4957 | | COA1 |
| **In juice diluted to13.5Brix (refr.)** |  |  |  |  |  | |  |
| Turbidity | NTU |  |  | 5,0 | GOST 8756.11 | |  |
| Stability | NTU |  |  | 1,5 | heat-cold test | |  |
| Color index (A520/A420) | % | 1,0 | > 2,0 |  | Spectrophotometry 10 mm cuvette | |  |
| Sediment | % |  |  | 0,5 | DSTU 7000 | |  |
| Mineral, plant, and foreign impurities | % |  |  | absent | DSTU 4913 | |  |
| Ethanol content | g/l |  | < 2 | 3 | DSTU ISO 2448 | |  |
| Pectin |  |  |  | free | 1:2 ethanol test | |  |
| **COA1** - Mentioned in Certificate of Analysis for each delivery | | | | | |

Food safety specifications*:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **In juice diluted to 13.5Brix (refr.)** | **Unit** | **Target** | **Max** | **Test method** |
| Hydroxymethyl furfural (5-HMF) | mg/l | < 5 | 20 | GOST 29032 |
| Nitrates | mg/kg | < 10 | 60 | DSTU 4948 |
| **Toxic elements** |  |  |  |  |
| Lead (Pb) | mg/kg | < 0,05 | 0,04 | GOST 26932, DSTU ISO 6633, GOST 30178 |
| Arsenic (As) | mg/kg | < 0,1 | 0,2 | GOST 26930, DSTU ISO 6634 |
| Cadmium (Cd) | mg/kg | < 0,03 | 0,03 | GOST 26933, DSTU ISO 6561, GOST 30178 |
| Mercury (Hg) | mg/kg | < 0,01 | 0,02 | GOST 26927, DSTU ISO 6637 |
| Copper (Cu) | mg/kg | < 5,0 | 5,0 | GOST 26931, DSTU ISO 7952, GOST 30178 |
| Zinc (Zn) | mg/kg | < 5,0 | 10 | GOST 26934, DSTU ISO 6636-2, DSTU ISO 6636-3, GOST 30178 |
| **Pesticides** |  |  |  |  |
| Hexachlorocyclohexane (α-, β-, γ-isomers) | mg/kg | < 0,01 | 0,05 | GOST 30349 |
| DDT and its metabolites | mg/kg | < 0,05 | 0,1 | GOST 30349 |
| **Radionuclides** |  |  |  |  |
| Strontium-90 | Bq/kg |  | 10 | МВ 5778 |
| Cesium-137 | Bq/kg |  | 70 | МВ 5779 |
| The specification complies with the Ukrainian Medical and Biological Requirements and Sanitary Norms of Quality for Food Raw Materials and Food Products N 5061-89 of 01.08.89, State Sanitary Norms “Acceptable Levels of Radionuclides 137Cs and 90Sr in food and potable water”. Target levels for nitrates and toxic elements are in compliance with AIJN Code of Practice, and ones for pesticides are within the limits indicated in the relevant EC Directives. | | | | |

Microbiological specifications:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Unit** | **Max** | **Test method** |
| Aerobic Plate Count | cfu/g | 5000 | GOST 10444.15 |
| Yeasts | cfu/g | 2000 | GOST 10444.12, GOST 28805 |
| Moulds | cfu/g | 500 | GOST 10444.12, GOST 28805 |
| Coliforms | cfu/g | absence | GOST 30518 |
| Pathogens, including *Salmonella* | cfu/25g | absence | DSTU EN 12824 |

Storage, transportation, labeling***:***

Product should be stored in tanks made from food grade inox steel or in sealed drums with food grade polyethylene bag. Shelf life and storage temperature: 12 months at the temperature no higher than +4 ºC.

Bulk product should be transported in isothermal tank at the temperature no higher than + 10 ˚C.

Packed in drums product should be transported at the temperature no higher than + 10 ˚C.

Labeling of packed product should be in compliance with the contract.

Usage:

Only for industrial use in the food production.

The product is clear and stable and it does not need an additional filtration after reconstitution. Precipitation of crystals of organic acids is a natural process and can occur during storage. The secrystals completely dissolve during reconstitution.