

**Institute of Public Health in Ostrava**

Centre of Hygienic Laboratories

CAI Accredited Testing Laboratory No.1393 according to SN EN ISO/IEC 17025:2005

Partyzánské nám. stí 7, 702 00 Ostrava

TEST REPORT No. 5369/2017

Customer : CRYSTAL COLLOIDALS
Thomas Alva Edisonweg 3
6045 GN Roermond
NL

Set No. : 2567
Sample Received : 30.1.2017 9:00
Sample Analyzed : 30.1.2017 - 3.2.2017
Ref. No. : ZU/ZU/01044/2016
File No. : S-ZU/ZU/01044/2016
File code : 4.0.3

Sample No. : 8334
Sampling date : Not mentioned **Sampling time:**Not mentioned
Sample name: 15.Colloidal Silver - Silbertau - Kolloidales Silber - 10 ppm - RS/08.16
Sample Type : Drinking water
Sampled by : Customer
Mode of sampling : Not mentioned

Results - chemical analysis

| Parameter | Value | Unit | Type | Method used | Uncertainty |
|-----------|-------|------|------|-------------------------|-------------|
| Ag | 18,4 | mg/l | A | SOP OV 201 ² | ±20% |

Notice to sampling : The sampling itself is not a subject of accreditation.

Notice to analysis :

The share of ionic silver (Ag⁺) measured by ISE method is 96,2%.

Method specification :

SOP OV 201 (SN EN ISO 17294-1, SN EN ISO 17294-2)

Laboratory workplace :

⁽²⁾ - Analyses performed at Ostrava (Partyzánské nám. 7, 702 00 Ostrava)

Methods in TYPE column: "A" accredited test

< - the result is below the detection limit, > - the result is higher than the value presented

Results deal with tested samples only.

Without a written consent of the laboratory, this Report can be reproduced only complete.

These expanded uncertainties of measurement are obtained by multiplying of standard uncertainty of measurement by extending coefficient k=2 (for confidence level 95%). Uncertainty of sampling not included.

Head of Hygienic Laboratories Center : Došká ová Šárka, RNDr.

Checked by : Lach Karel, Ing. CSc.

Completed by : Lach Karel, Ing. CSc.

Number of pages : 1

Date : 14.2.2017

Ing. Vladimíra N mcová
Head of Department of Inorganic Analyses



Size Distribution Report by Number

Sample Details

Sample Name: 8335 Silbertau Kolloidales Silber 10ppm RS_08.16 AVG

SOP Name: nanoAg 12 repetition.sop

General Notes: Average result created from record number(s): 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527

File Name: CRYSTAL colloidal.dts **Dispersant Name:** Water

Record Number: 528

Dispersant RI: 1.330

Material RI: 0.14

Viscosity (cP): 0.8872

Material Absorbtion: 3.99

Measurement Date and Time: 3. února 2017 12:12:27

System

Temperature (°C): 25.0

Duration Used (s): 70

Count Rate (kcps): 205.7

Measurement Position (mm): 4.65

Cell Description: Disposable sizing cuvette

Attenuator: 8

Results

| | Size (d.nm): | % Number |
|----------------|--------------|----------|
| Peak 1: | 17.61 | 47.6 |
| Peak 2: | 52.11 | 52.4 |
| Peak 3: | 0.000 | 0.0 |

