

**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. 5365/2017**

**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. :** 8328  
**Sampling date :** Not mentioned **Sampling time:**Not mentioned  
**Sample name:** 12.Colloidal Silver - Silver purity - Kolloidales Silber - 10 ppm  
**Sample Type :** Drinking water  
**Sampled by :** Customer  
**Mode of sampling :** Not mentioned

**Results - chemical analysis**

Parameter	Value	Unit	Type	Method used	Uncertainty
Ag	22,9	mg/l	A	SOP OV 201 <sup>2</sup>	±20%

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

**Notice to analysis :**

The share of ionic silver (Ag<sup>+</sup>) measured by ISE method is 86,7%.

**Method specification :**

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

**Laboratory workplace :**

<sup>(2)</sup> - 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:** 8329 Silver purity Kolloidales Silber 10ppm AVG1

**SOP Name:** nanoAg 12 repetition.sop

**General Notes:** Average result created from record number(s): 451 452 454 455 456 457  
458 459 461 462 463 464 466 468 469 470 473 474

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

**Record Number:** 476      **Dispersant RI:** 1.330

**Material RI:** 0.14      **Viscosity (cP):** 0.8872

**Material Absorbtion:** 3.99      **Measurement Date and Time:** 3. února 2017 9:23:57

### System

**Temperature (°C):** 25.0      **Duration Used (s):** 60

**Count Rate (kcps):** 505.5      **Measurement Position (mm):** 4.65

**Cell Description:** Disposable sizing cuvette      **Attenuator:** 10

### Results

	Size (d.nm):	% Number
<b>Peak 1:</b>	25.70	61.0
<b>Peak 2:</b>	134.6	39.0
<b>Peak 3:</b>	0.000	0.0

