

**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. 5359/2017**

**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

<b>Sample No. :</b>	<b>8316</b>
<b>Sampling date :</b>	Not mentioned
<b>Sampling time:</b>	Not mentioned
<b>Sample name:</b>	6.Colloidal Silver - Optimised Energetics - Colloidal silver plus - 10 ppm - 942
<b>Sample Type :</b>	Drinking water
<b>Sampled by :</b>	Customer
<b>Mode of sampling :</b>	Not mentioned

**Results - chemical analysis**

Parameter	Value	Unit	Type	Method used	Uncertainty
Ag	10,5	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 87,8%.

**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:** 8317 Optimized Energetics Colloidal silver plus 10ppm 942 AVG

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

**General Notes:** Average result created from record number(s): 363 364 365 366 368 369 371 372

<b>File Name:</b> CRYSTAL colloidal.dts	<b>Dispersant Name:</b> Water
<b>Record Number:</b> 373	<b>Dispersant RI:</b> 1.330
<b>Material RI:</b> 0.14	<b>Viscosity (cP):</b> 0.8872
<b>Material Absorbtion:</b> 3.99	<b>Measurement Date and Time:</b> 1. února 2017 14:12:46

### System

<b>Temperature (°C):</b> 25.0	<b>Duration Used (s):</b> 60
<b>Count Rate (kcps):</b> 308.9	<b>Measurement Position (mm):</b> 4.65
<b>Cell Description:</b> Disposable sizing cuvette	<b>Attenuator:</b> 9

### Results

	Size (d.nm):	% Number
<b>Peak 1:</b>	28.25	100.0
<b>Peak 2:</b>	0.000	0.0
<b>Peak 3:</b>	0.000	0.0

