For use in quality control/manufacturing process only.

Density Reference Standard Beads (DRSB)

Batch B

Version: 51

Content Version: February 2024

Beads for one-point density calibration.

Cat. No. 06 422 667 001 1 x 10 mL Batch B

Store the product at +2 to +8°C.

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1. General Information

1.1. Contents

Vial / bottle	Label	Batch	Function / description	Content
1	Density Reference Standard Beads	B	Beads for one-point density calibration.	1 bottle, 10 mL

1.2. Storage and Stability

Storage Conditions (Product)

The product is stable at +2 to +8°C until the expiry date printed on the label, when handled as described in these Instructions for Use.
⚠ ***Do not freeze.***

1.3. Additional Equipment and Reagent required

Analyzer and accessories

- Cedex HiRes Analyzer*
- Cedex HiRes Reagent Kit*
- Cedex Sample Cups*

1.4. Applications

The Cedex HiRes Analyzer measures the cell density, also known as concentration, of a cellular suspension, along with its viability status and cell characteristics such as diameter and compactness. To check the correct calibration with regard to the density, use the Density Reference Standard Beads instead of an ordinary cell sample.

This product is traceable for the following aspects:
- Particle Size: NIST, USA
- Particle Concentration: Physikalisch-Technische Bundesanstalt, Berlin, Germany

The Density Reference Standard Beads (DRSB) are designed to mimic cell behavior in flow dynamics. Due to their size and optical properties, they will be detected as dead cells by the Cedex HiRes Software.

2. How to Use this Product

2.1. Before you Begin

General Considerations

There is no general advice with regard to how often or how many counts should be done to ensure that your analyzer is working correctly. Roche Diagnostics has had good results using the DRSB on a monthly basis, carrying out 10 samples per run with the Cedex HiRes Analyzer.

Acceptance range

Two factors influence the acceptance range for calibration with Density Reference Standard Beads in connection with the Cedex HiRes Analyzer.

Factor	Influenced by
Sample preparation	Mixing, pipetting, and pipette quality (precision, accuracy, service state) have been shown to add approximately 1.5 to 2% to the variability in density measurements.
Measurement precision	▪ Is based on the statistical nature of the measurement process. ▪ Depends on the density of the DRSB used, Cell Type parameter settings, and the level of precision used for the measurement.

Sampling quality

Sampling quality is essential for the evaluation of the status of the instrument. Consider the following:
- Do not freeze the beads; only store beads at +2 to +8°C.
- Acclimate beads to +23 to +27°C prior to use.
- Verify the correct weight of the unopened bottle; see bottle label.
- Use an ultrasonic bath for mixing.
- Rock the bottle gently, including rocking upside down.
- Do not withdraw more than 2 samples from the bottle without remixing.
- Use only calibrated pipettes.
- Only trained staff should perform sample preparation.

Working Solution

Preparation of the DRSB solution

1. Verify that the beads have been stored correctly at +2 to +8°C.

   ⚠ ***Do not freeze the beads.***

2. Verify that the bottle was securely closed before use.
   – Check the weight of the unopened bottle; the correct value is on the bottle label.

3. Allow the beads to acclimate to +23 to +27°C prior to use.

4. Shake the beads using an ultrasonic bath at +23 to +27°C and at the highest available intensity for 5 minutes.

   ℹ *Cap should be slightly loosened but secured against falling over.*

⚠ ***Ensure that no beads are sticking to the base or side of the bottle before use.***

ℹ *The DRSB solution contains SDS, which may show signs of some coagulation or crystallization at low temperatures. Allow the beads to acclimate with occasional mixing at +25°C until the coagulation or crystallization disappears. Alternatively, gently roll the DRSB bottle between the palms of the hands until the coagulation has disappeared. As long as the DRSB solution has been allowed to acclimate to +23 to +27°C, and all steps in this Instructions for Use have been carried out, any remaining coagulation or crystallization will have no effect on the performance or quality of the DRSB solution when used in a Cedex HiRes Analyzer.*

2.2. Protocols

Checking the FlowFactor (FF)

1. Pipette 1 sample of 0.3 mL DRSB into a Cedex Sample Cup* and immediately run the sample with factory settings for default Cell Type Std. Size.
   – Select the maximum possible setting for “precision”.

2. Mix the DRSB thoroughly, then pipette the next sample of 0.3 mL into a Cedex Sample Cup* and immediately run the sample.

3. Repeat this procedure until 10 samples are processed.

4. Calculate the mean value of the Total Cell Density (TCD) of the 10 samples used.

5. Calculate the relative standard deviation of the TCD values of the 10 samples used, and verify that the relative standard deviation is less than or equal to 5%.
   – Otherwise, the Cedex HiRes Analyzer, the beads, or the handling must be checked and the calibration must be repeated.

6. Calculate the deviation of the mean TCD value of the 10 samples used from the actual value which is given as Particle number/ml on the bottle of beads.

7. Verify that the deviation of the mean TCD value is less than or equal to 5%, or as specified by your requirements, from the actual value given on the bottle for the beads.
   – If the value falls outside of the acceptable range, skip to Step 9.

8. Close bottle tightly and store beads at +2 to +8°C.

   ⚠ ***Do not freeze the beads.***

   – The current FF is correct and no change is necessary.

9. If the mean value falls out of range, repeat Steps 1 to 5 using a second/different LOT (batch) of Density Reference Standard Beads.
   – Continue with Step 10.

10. Calculate the FlowFactor (FF) of each measurement series and the mean value of the two FFs, see section, **Adjusting the FlowFactor**.

11. Verify that the deviation of the two FFs from the mean value of the FFs are less than or equal to 5%.
    – Otherwise, the Cedex HiRes Analyzer, the beads, or the handling must be checked and the calibration must be repeated.

12. Calculate the new FF (mean value of the FFs), see section, **Adjusting the FlowFactor**, or follow your company’s requirements.

Adjusting the FlowFactor

The FlowFactor (FF) is analyzer specific and part of the conversion factor that relates the number of objects detected in the Cedex HiRes Analyzer to the actual density in the analyzed sample. The conversion factor is linearly dependent on the FlowFactor, allowing for the possibility to compute the appropriate setting for this parameter via the comparison of Cedex HiRes Analyzer results versus a known density of a sample, such as the Density Reference Standard Beads. Refer to the relevant Cedex HiRes Operator's Manual for the location of the current FlowFactor. The location depends on the installed Software version.

1. Write down the current FlowFactor (FFold) and calculate a new FlowFactor as follows:

$$FF\ (new_{1}) = \frac{\text{actual density (according to bottle label)}}{\text{mean value TCD of measurement series 1}} \times FF\ (old)$$

$$FF\ (new_{2}) = \frac{\text{actual density (according to bottle label)}}{\text{mean value TCD of measurement series 2}} \times FF\ (old)$$

("actual density" is specified as Particle number/ml on the label of the bottle of beads used for the calibration.)

$$\textbf{FF (new)} = \frac{FF\ (new_{1}) + FF\ (new_{2})}{2}$$

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2. Refer to the relevant Cedex HiRes Operator's Manual for information about the location of the FlowFactor.
   – Update the FlowFactor in that location based on the result calculated in Step 1.

FlowFactor calibration

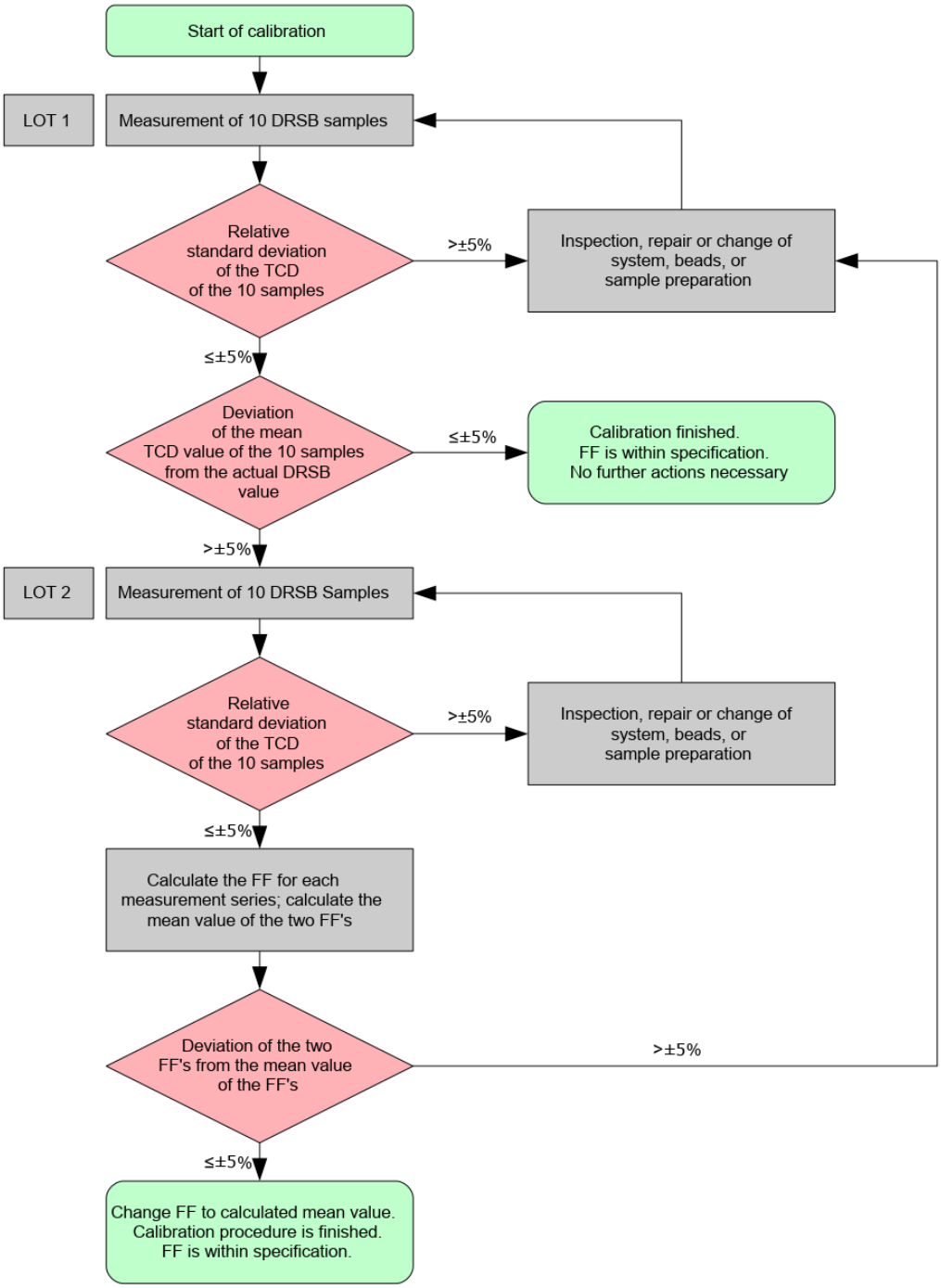

Fig. 1: Calibration of Cedex HiRes Analyzer

3. Supplementary Information

3.1. Conventions

To make information consistent and easier to read, the following text conventions and symbols are used in this document to highlight important information:

Text convention and symbols	
Information Note: Additional information about the current topic or procedure.	
Important Note: Information critical to the success of the current procedure or use of the product.	
① ② ③ etc.	Stages in a process that usually occur in the order listed.
❶ ❷ ❸ etc.	Steps in a procedure that must be performed in the order listed.
* (Asterisk)	The Asterisk denotes a product available from Roche Diagnostics.

3.2. Changes to previous version

Layout changes.
Editorial changes.
Updated to include lot-specific data for new lot.

3.3. Ordering Information

Product	Pack Size	Cat. No.
Consumables		
Cedex Sample Cups	500 cups	05 650 623 001
Instruments		
Cedex HiRes Analyzer	1 instrument	05 650 216 001

3.4. Trademarks

CEDEX is a trademark of Roche.
All other product names and trademarks are the property of their respective owners.

3.5. License Disclaimer

Consult product detail pages at **custombiotech.roche.com** for patent license limitations, if available.

3.6. Regulatory Disclaimer

For use in quality control/manufacturing process only.

3.7. Safety Data Sheet

Please follow the instructions in the Safety Data Sheet (SDS).

3.8. Contact and Support

For additional documentation such as certificates and safety data sheets, please visit **documentation.roche.com**.

Your Roche CustomBiotech Customer Service:

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4. Lot-Specific Data

Density Reference Standard Beads, Batch B	
REF	06 422 667 001
	51
valid for LOT	57130104
	Apr 2025

In this chapter, you will find lot specific data about your product. The table below provides the following information for each bottle produced for this lot.

Column 1: Bottle No. for the bottle.
Column 2: Actual concentration expressed in particle number/mL for the bottle.
Column 3: Total weight of bottle, including bottle, contents, and label.
Column 4: Check Box for marking which bottle was received

Standard labeling assay

Use this table as follows

1. Print out the table
2. Find the bottle number on the bottle label as shown in Figure 2.
3. Place a check mark in the “Bottle Received” column to mark the specific bottle received for future reference.

This product is traceable in the following aspects:
- *Particle Size: NIST, USA*
- *Particle Concentration: Physikalisch-Technische Bundesanstalt, Berlin, Germany*

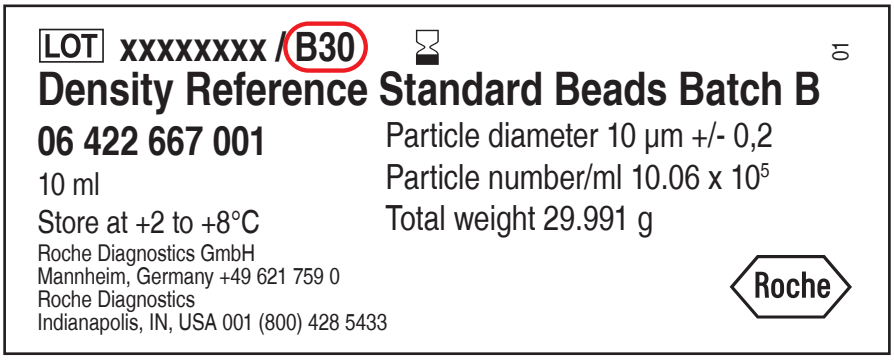

Fig. 2: Example of how to find the bottle number on the bottle label. The bottle number is circled.

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B1	9.97	31.113	
B2	10.14	31.128	
B3	10.16	31.155	
B4	10.06	31.020	
B5	9.99	31.034	
B6	9.89	31.008	
B7	9.91	30.965	
B8	10.14	31.151	
B9	10.05	31.046	
B10	9.97	31.208	
B11	10.00	31.129	
B12	9.97	31.239	
B13	10.01	31.227	
B14	9.95	31.089	
B15	9.94	31.353	
B16	9.97	31.113	
B17	9.91	31.385	
B18	10.11	30.890	
B19	9.93	31.259	
B20	9.89	31.164	
B21	9.90	30.862	
B22	9.91	31.061	
B23	9.91	31.141	
B24	10.02	31.430	
B25	9.98	31.113	
B26	9.97	30.991	
B27	10.13	31.169	
B28	10.11	31.218	
B29	9.93	31.234	
B30	10.06	29.878	
B31	9.94	31.026	
B32	9.99	31.123	
B33	9.92	31.184	
B34	9.93	31.323	
B35	9.88	31.136	
B36	9.99	30.996	
B37	9.95	31.076	
B38	9.97	31.145	
B39	9.90	31.003	
B40	9.94	31.134	
B41	9.93	31.160	
B42	9.91	30.750	

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B43	9.92	30.983	
B44	9.88	31.097	
B45	10.12	31.149	
B46	10.08	31.088	
B47	9.93	30.968	
B48	9.87	30.901	
B49	9.98	31.285	
B50	10.07	31.119	
B51	9.94	31.027	
B52	9.92	31.057	
B53	9.98	30.893	
B54	9.92	31.273	
B55	9.93	31.326	
B56	10.11	31.262	
B57	9.92	31.337	
B58	10.03	31.167	
B59	9.90	31.216	
B60	9.95	31.404	
B61	9.92	30.958	
B62	9.94	30.850	
B63	9.92	30.858	
B64	10.09	31.016	
B65	9.92	31.145	
B66	9.95	30.969	
B67	9.89	31.146	
B68	9.96	31.126	
B69	9.94	31.083	
B70	10.08	30.930	
B71	10.05	30.865	
B72	9.94	31.169	
B73	10.13	29.714	
B74	10.10	31.296	
B75	10.09	30.950	
B76	10.04	31.166	
B77	9.93	30.962	
B78	10.02	31.039	
B79	9.89	31.081	
B80	10.11	29.754	
B81	9.91	31.032	
B82	9.97	30.989	
B83	10.07	30.830	
B84	10.08	30.908	

4. Lot-Specific Data

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B85	10.09	30.986	
B86	10.16	29.927	
B87	9.89	31.117	
B88	9.99	30.944	
B89	10.08	31.022	
B90	9.99	29.781	
B91	10.03	29.613	
B92	9.90	30.866	
B93	10.07	29.695	
B94	10.03	31.284	
B95	9.95	30.904	
B96	10.10	31.101	
B97	10.00	30.952	
B98	9.92	31.199	
B99	10.00	30.974	
B100	10.00	31.306	
B101	9.89	31.106	
B102	9.94	31.049	
B103	10.00	31.195	
B104	9.90	31.038	
B105	9.90	31.303	
B106	9.88	31.092	
B107	9.90	31.196	
B108	9.92	30.927	
B109	10.08	30.962	
B110	10.11	31.184	
B111	10.02	31.046	
B112	9.96	31.059	
B113	9.89	31.160	
B114	9.94	31.067	
B115	9.91	31.019	
B116	9.98	31.183	
B117	9.92	31.160	
B118	9.90	31.053	
B119	9.99	31.120	
B120	10.09	31.041	
B121	9.86	31.217	
B122	10.01	31.206	
B123	9.92	30.973	
B124	10.08	31.141	
B125	9.89	30.997	
B126	9.90	31.033	

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B127	10.03	31.006	
B128	9.97	31.028	
B129	9.88	31.255	
B130	9.94	30.985	
B131	9.91	30.897	
B132	9.98	31.064	
B133	10.05	31.417	
B134	10.10	31.208	
B135	9.90	31.179	
B136	10.00	31.193	
B137	10.12	31.044	
B138	10.10	31.231	
B139	10.02	31.138	
B140	10.06	31.134	
B141	9.94	30.875	
B142	10.02	31.267	
B143	10.05	31.068	
B144	9.93	31.153	
B145	10.08	31.207	
B146	10.13	31.061	
B147	9.94	31.000	
B148	10.01	31.057	
B149	10.08	31.360	
B150	10.09	31.068	
B151	9.91	30.822	
B152	9.90	31.049	
B153	10.04	31.085	
B154	9.96	31.179	
B155	9.92	30.903	
B156	9.91	31.190	
B157	9.98	31.292	
B158	10.16	31.105	
B159	10.04	30.972	
B160	9.95	31.110	
B161	10.01	31.115	
B162	9.99	31.104	
B163	10.12	31.087	
B164	9.93	31.327	
B165	10.05	31.275	
B166	9.91	31.274	
B167	10.02	31.111	
B168	10.05	30.901	

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B169	10.01	31.168	
B170	9.92	31.002	
B171	10.11	31.204	
B172	9.96	30.828	
B173	10.01	31.138	
B174	9.97	31.262	
B175	10.02	31.144	
B176	9.98	31.197	
B177	9.90	31.320	
B178	9.96	31.035	
B179	9.96	30.853	
B180	9.95	31.154	
B181	10.07	30.916	
B182	9.96	30.999	
B183	10.13	31.031	
B184	10.00	31.247	
B185	10.04	31.331	
B186	9.98	31.029	
B187	9.98	31.107	
B188	9.97	31.092	
B189	9.92	31.332	
B190	9.92	31.199	
B191	9.90	31.288	
B192	10.00	31.264	
B193	10.02	31.404	
B194	10.10	31.243	
B195	9.97	31.294	
B196	10.03	31.211	
B197	10.00	30.977	
B198	9.96	31.022	
B199	9.94	31.011	
B200	9.90	31.196	
B201	9.88	31.141	
B202	9.94	31.065	
B203	10.08	31.313	
B204	9.93	31.270	
B205	10.10	31.076	
B206	10.01	31.233	
B207	9.96	31.213	
B208	9.97	31.302	
B209	10.02	31.021	
B210	9.94	31.102	

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B211	10.05	31.193	
B212	9.94	31.162	
B213	10.00	31.170	
B214	10.09	31.003	
B215	9.92	31.273	
B216	10.06	31.056	
B217	10.08	31.168	
B218	9.99	31.082	
B219	9.95	31.234	
B220	10.08	31.160	
B221	10.03	31.118	
B222	10.01	31.190	
B223	9.93	30.976	
B224	10.13	31.013	
B225	9.99	31.108	
B226	9.94	31.152	
B227	9.99	31.091	
B228	10.08	30.981	
B229	10.06	31.092	
B230	9.90	31.241	
B231	10.04	31.295	
B232	9.89	31.236	
B233	9.88	30.996	
B234	10.06	31.092	
B235	10.11	31.035	
B236	10.11	31.141	
B237	10.09	30.811	
B238	10.04	30.874	
B239	10.12	31.035	
B240	10.04	30.909	
B241	10.02	31.085	
B242	9.94	31.311	
B243	9.99	30.927	
B244	9.92	31.014	
B245	9.95	30.899	
B246	10.11	31.144	
B247	9.92	30.919	
B248	10.06	30.935	
B249	10.03	31.354	
B250	10.01	31.051	
B251	9.93	31.047	
B252	10.06	30.847	

4. Lot-Specific Data

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B253	10.04	31.101	
B254	10.08	30.892	
B255	10.00	31.277	
B256	10.00	31.173	
B257	9.95	30.863	
B258	9.95	30.884	
B259	9.92	31.072	
B260	9.98	31.017	
B261	9.95	30.885	
B262	9.94	31.002	
B263	9.95	30.906	
B264	10.05	30.974	
B265	10.06	30.896	
B266	9.98	31.089	
B267	9.91	30.743	
B268	10.11	31.140	
B269	10.09	30.896	
B270	10.05	30.982	
B271	9.93	30.982	
B272	10.04	31.042	
B273	10.07	30.980	
B274	10.09	30.925	
B275	10.09	30.846	
B276	9.97	30.879	
B277	9.97	31.179	
B278	9.97	31.084	
B279	9.97	30.917	
B280	10.03	30.865	
B281	10.00	31.099	
B282	9.99	31.186	
B283	9.98	31.078	
B284	10.00	31.150	
B285	9.97	31.416	
B286	9.94	30.968	
B287	9.96	31.205	
B288	9.99	31.000	
B289	9.99	30.848	
B290	10.01	31.111	
B291	9.96	31.038	
B292	9.98	31.040	
B293	10.08	30.937	
B294	10.07	31.105	

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B295	9.98	31.058	
B296	10.03	31.265	
B297	10.05	30.886	
B298	10.03	31.403	
B299	10.06	30.904	
B300	10.13	30.830	
B301	10.12	30.889	
B302	10.06	31.400	
B303	9.98	31.133	
B304	10.10	31.174	
B305	9.91	31.166	
B306	9.92	30.829	
B307	9.94	30.940	
B308	9.88	31.078	
B309	9.96	30.828	
B310	10.09	30.900	
B311	9.88	31.323	
B312	10.00	31.044	
B313	10.01	31.121	
B314	9.96	31.001	
B315	9.94	31.107	
B316	9.88	31.055	
B317	9.95	30.835	
B318	10.07	31.115	
B319	9.97	31.037	
B320	10.13	31.160	
B321	9.93	30.928	
B322	9.93	31.307	
B323	10.03	31.139	
B324	9.87	31.040	
B325	9.98	30.868	
B326	9.96	31.017	
B327	9.99	31.220	
B328	9.95	31.207	
B329	9.91	30.895	
B330	9.95	30.864	
B331	9.99	31.076	
B332	9.98	30.899	
B333	10.07	30.931	
B334	9.94	30.850	
B335	10.08	31.084	
B336	9.99	31.126	

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B337	9.90	31.090	
B338	9.95	31.263	
B339	10.00	30.872	
B340	10.02	31.210	
B341	9.89	30.866	
B342	9.89	30.939	
B343	9.93	31.073	
B344	10.04	30.973	
B345	9.88	30.945	
B346	9.95	30.880	
B347	10.02	30.983	
B348	10.07	31.030	
B349	10.00	30.920	
B350	9.88	30.865	
B351	9.98	30.832	
B352	10.06	30.897	
B353	9.91	30.881	
B354	9.98	31.040	
B355	9.93	30.779	
B356	9.98	31.227	
B357	9.97	31.107	
B358	10.03	31.108	
B359	10.03	31.021	
B360	9.90	30.948	
B361	9.91	31.221	
B362	10.11	31.144	
B363	9.98	30.979	
B364	9.90	31.021	
B365	10.03	31.225	
B366	9.97	31.298	
B367	10.17	31.289	
B368	9.95	31.303	
B369	10.04	30.983	
B370	9.88	30.809	
B371	9.91	31.185	
B372	9.94	30.899	
B373	9.97	31.131	
B374	9.94	31.338	
B375	9.95	31.183	
B376	10.03	31.414	
B377	9.97	31.310	
B378	10.03	31.250	

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B379	9.93	30.967	
B380	9.97	31.013	
B381	9.99	30.940	
B382	9.87	31.333	
B383	9.91	30.978	
B384	9.98	30.872	
B385	9.91	30.946	
B386	9.93	31.022	
B387	9.95	31.097	
B388	10.02	31.109	
B389	9.99	31.372	
B390	9.94	31.187	
B391	9.95	31.360	
B392	9.95	30.975	
B393	9.86	31.043	
B394	10.01	31.060	
B395	9.88	30.876	
B396	9.95	31.237	
B397	9.91	31.175	
B398	10.04	31.092	
B399	10.01	31.089	
B400	9.87	31.135	
B401	9.92	30.888	
B402	9.92	31.291	
B403	9.92	31.038	
B404	9.87	31.430	
B405	9.99	31.208	
B406	9.95	31.240	
B407	10.09	31.105	
B408	9.98	31.043	
B409	10.03	30.958	
B410	10.10	31.119	
B411	9.96	31.296	
B412	9.96	31.136	
B413	9.88	30.957	
B414	9.90	31.318	
B415	10.06	31.441	
B416	9.97	30.920	
B417	10.03	31.362	
B418	9.86	31.311	
B419	10.02	31.124	
B420	9.90	31.045	

4. Lot-Specific Data

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B421	9.90	30.839	
B422	10.03	31.166	
B423	9.97	31.052	
B424	9.92	30.922	
B425	9.96	31.171	
B426	10.05	30.927	
B427	9.88	30.961	
B428	9.91	31.226	
B429	9.92	30.995	
B430	9.88	30.980	
B431	9.92	31.379	
B432	9.98	31.168	
B433	10.03	31.220	
B434	9.98	31.018	
B435	10.07	31.263	
B436	10.09	30.907	
B437	10.02	30.920	
B438	10.00	31.105	
B439	9.96	31.149	
B440	10.09	30.996	
B441	9.91	31.260	
B442	10.07	31.306	
B443	9.99	31.072	
B444	9.93	30.995	
B445	9.98	31.219	
B446	9.94	30.955	
B447	9.94	31.064	
B448	10.03	30.833	
B449	10.10	31.151	
B450	10.04	31.307	
B451	10.05	29.787	
B452	10.04	31.352	
B453	10.04	30.991	
B454	9.95	30.967	
B455	10.02	29.714	
B456	9.94	31.351	
B457	10.16	31.051	
B458	10.04	31.298	
B459	10.09	31.084	
B460	10.08	31.326	
B461	9.89	31.209	
B462	10.09	31.002	

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B463	10.04	31.021	
B464	9.93	31.036	
B465	10.01	31.228	
B466	10.00	30.971	
B467	9.88	31.008	
B468	9.99	31.153	
B469	9.94	30.949	
B470	9.91	30.939	
B471	10.01	31.096	
B472	10.06	31.173	
B473	10.01	30.996	
B474	9.89	30.980	
B475	9.92	30.892	
B476	9.88	30.834	
B477	10.08	31.175	
B478	9.87	31.100	
B479	9.96	31.196	
B480	9.95	31.153	
B481	9.97	31.282	
B482	9.91	30.935	
B483	10.00	31.131	
B484	10.09	30.876	
B485	10.08	31.153	
B486	10.01	31.157	
B487	9.89	31.327	
B488	10.07	30.919	
B489	9.91	31.047	
B490	10.10	31.113	
B491	10.03	30.824	
B492	10.01	31.127	
B493	9.94	30.908	
B494	10.05	31.331	
B495	9.94	31.323	
B496	10.07	31.265	
B497	9.96	31.114	
B498	9.97	31.324	
B499	10.08	31.454	
B500	10.11	31.033	
B501	9.98	31.168	
B502	10.07	31.066	
B503	9.95	31.027	
B504	9.88	31.234	

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B505	9.90	31.244	
B506	9.91	30.953	
B507	10.01	31.150	
B508	9.95	31.110	
B509	9.93	30.858	
B510	9.87	30.918	
B511	10.06	31.090	
B512	9.94	31.033	
B513	9.94	31.308	
B514	9.90	31.151	
B515	9.88	31.114	
B516	9.99	31.266	
B517	9.94	31.121	
B518	10.04	30.967	
B519	10.05	31.230	
B520	10.00	31.051	
B521	9.99	31.195	
B522	9.95	31.491	
B523	9.92	30.865	
B524	9.98	30.941	
B525	9.90	30.907	
B526	10.01	31.192	
B527	9.91	31.168	
B528	10.04	31.251	
B529	9.94	31.292	
B530	9.93	30.947	
B531	10.02	31.093	
B532	10.06	30.878	
B533	9.92	30.949	
B534	10.02	31.277	
B535	9.97	31.248	
B536	9.98	31.028	
B537	10.02	31.007	
B538	10.02	31.072	
B539	9.96	31.347	
B540	10.00	31.364	
B541	9.87	31.174	
B542	10.07	31.127	
B543	10.05	31.050	
B544	10.00	30.934	
B545	9.88	31.031	
B546	10.02	31.170	

ID-Nr. LOT 57130104	Concentration Particle number/mL (x 10^5)	weight (g)	Bottle received
B547	10.06	30.886	
B548	10.02	30.920	
B549	9.89	31.032	
B550	10.04	31.003	
B551	10.02	30.859	
B552	9.91	31.244	
B553	10.01	30.833	
B554	10.02	30.845	
B555	10.03	30.905	
B556	10.04	31.186	
B557	10.14	31.049	
B558	10.01	31.037	
B559	9.91	30.869	
B560	10.00	31.063	

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