



CERTIFICATE OF ANALYSIS

Microsphere Working Solution

| P/N | Lot number | Expiration date | Instruments |
|--|------------|--------------------|---|
| 03724F | 03724F-161 | 04/08/2018 | IBC, IBCm |
| Recommended Intensity Value (ave Intensity) | | | 1.00 ± 0.1 |
| Reference Value (kIBC) | | | 1346 ± 10% (1211 - 1480) |
| <i>Date of issue of certificate:</i> | | <i>May 04 2018</i> | <i>Pierre Broutin Bentley Instruments</i> |

Instructions for use

Alignment & Intensity:

1. Analyze the Microsphere Working Solution (5 repeats) using the instruments microsphere setting.
2. Check the "Intensity Histogram" for signal intensity and proper alignment: the average intensity peak must present a **symmetrical bell-shaped curve** and be **centered around the Recommended Intensity Value**.
3. If the intensity peak is not symmetrical, use the instrument scope and/or alignment function to align the flow cell.
4. If the intensity peak is off center, go to the instrument calibration setting and adjust the PCB/PMT gain factors accordingly.
5. Repeat procedure steps 1-4 until the instrument is properly aligned and exhibits the recommended intensity.

Performance:

1. After the instrument has been properly adjusted for alignment and intensity, check that the IBC count is as expected: **results must be within ± 10% of the referenced value** for the lot.
2. If the IBC count is not within the accepted range, proceed with general instrument trouble shooting.

Storage:

When not in use, the Microsphere Working Solution must be stored at 2-8°C and be protected from light and freezing.