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## Particle Technology

Subject: Recommended Storage Conditions

At this time, Seradyn has not established formal shelf-life claims for our microparticles. We are not aware of any regulatory requirements to establish such a claim for the microparticles. Due to the extreme diversity of diameters and acid contents of the particles, virtually all of our microparticle customers have established their own shelf-life claims at the diagnostic kit level.

Our Certificate of Analysis recommends storage temperature of 2-8 °C, however, this is a recommendation only and it is intended only as a means of preventing or minimizing microbial growth. The particles have excellent temperature stability and it is not an absolute necessity to store or to ship at 2-8 °C. The particles have excellent quality even though transported or stored at ambient temperature.

We cannot determine when the microparticles are no longer acceptable for use with any specific diagnostic or molecular biology application. We have customers using particles that are greater than 18 years old and that have been stored at a wide variety of temperatures. We strongly recommend that the storage conditions, performance characteristics and expiration dates of these microparticle products be established by the customer based on each specific use and application of the particles in their own functional products. Based on historical data, the microparticles have a minimum shelf life of 10 years in unopened sealed containers when stored as recommended above.

If you require any additional information, please contact me.

Sincerely,

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