Major 3rd-Party R&D Lab Long-Term Room Temperature Storage evaluation contrasting NanoLogix Tryptic Soy Agar (TSA) packaged in proprietary Inert Gas-Charged Vacuum Flatpack against Brand X TSA packaged in industry-standard packaging.
Vacuum flat-pack, inert gas-charged
Tryptic soy agar (TSA) from NanoLogix versus Brand X stored at room temperature (RT) for 4 months

• For competitor agar:
• Normal Storage life for TSA is 3-1/2 months if refrigerated at 2-8 degrees C
• Maximum effective life guarantee at room temperature (RT) is seven days, if product has undergone irradiation and is left in unopened package.
For NanoLogix agar:

NanoLogix TSA plates in proprietary packaging have exceeded one year shelf life in cold storage with no degradation of quality.

In internal NanoLogix lab tests conducted to test RT life, TSA plates stored at room temperature have currently passed nine months of effectiveness with no degradation in quality.

In RT tests ongoing at a major 3rd party Research and Development facility, NanoLogix TSA plates have passed a four-month milestone with no loss in efficacy for Anthrax detection.

The potential impact on the petri market is vast, with approximately two million petri plates used each day in the US, and many more used internationally, any storage advancement that extends the useable lifespan of testing agar by multiples of what has been previously available will have a major market impact.

NanoLogix packs both its Petri plates and BNP culture-based plates in its proprietary patent-pending inert-gas-charged vacuum flatpacks.

NanoLogix anticipates room temperature life of its basic TSA media to potentially exceed one year.

The following shows the results from the 3rd party facility.
The two lots of NanoLogix TSA compared. Lot No. 1276343 (left) left out at RT for 4 months upon receipt. Lot No. 2150021 (right) recently received (< 1 month) and stored at 2-8° C. No obvious differences between two NanoLogix lots.
NanoLogix TSA Comparison

NanoLogix TSA Lot No. 2150021
Poured 11/4/12, Exp. 11/5/2013

NanoLogix TSA Lot No. 1276343
Poured 3/12/12
Original Exp. 6/12/2012
Brand X TSA Comparison

The two lots of Brand X TSA compared. Lot No. XXX63 (left) left out at RT for 4 months and 10 days. Lot No. XXX42 (right) recently received (< 1 month) and stored at 2-8° C. Lot No. XXX63 was completely dried out.
Brand X TSA Comparison

Brand X Lot No. XXX63
Exp. 9/2012

Brand X Lot No. XXX42
Exp. 3/2013
Brand X TSA Comparison in Bags

Brand X Lot No. XXX63
Exp. 9/2012

Brand X Lot No. XXX42
Exp. 3/2013
Dried Brand X TSA

When downward pressure applied to dried Brand X TSA (left), nothing happened. Same downward force caused recently received Brand X TSA (right) to split.
Conclusions

• Long-term storage of NanoLogix TSA in original packaging at RT (at the 4 month time-point) has not affected the ability of *Bacillus anthracis* Ames spores to grow at the same rate as recently received NanoLogix TSA stored at 2-8°C.

• Long-term storage of Brand X TSA in original packaging at RT for same duration resulted in media being completely dried out and unusable.