

Progenics Cord Blood Cryobank Annual Quality Report



2018



Company Profile

Progenics Cord Blood Cryobank is a leader in delivering consistent, high quality cord blood processing results, with over 10 years of experience in the cord blood banking industry. Progenics is AABB Accredited and is registered with both Health Canada and the Food and Drug Administration (FDA) in the United States. The company's mission is to provide the highest quality processing and long-term safe, secure storage of cord blood stem cells, to ensure their availability when needed.

Progenics Cord Blood Cryobank's *modified double stem cell extraction processing technique*, developed by the company's Research and Development Team, ensures that they can guarantee every processed cord blood sample will have a minimum yield of 85% Total Nucleated Cells (TNC).

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Report Summary

This quality report summarizes the processing results from all the cord blood samples processed by Progenics Cord Blood Cryobank from January 01, 2018 to December 31, 2018. The quality indicators referenced in this report present 3 key variables: the yield of total nucleated cells (TNC); total nucleated cell viability, and; CD34+ viability.

This report also compares the average monthly and annual percentage yields of TNC including stem cells, the average percentage of total viable nucleated cells, and the average percentage of viable CD34+.

Progenics uses a *modified double stem cell extraction processing technique* which ensures that a higher number of viable nucleated cells are banked for potential medical need. Based on this technique, the average recovery rate for TNCs banked has been 97%, which is significantly greater than the industry average and the guaranteed quality standard Progenics offers to each client.

2018 Monthly Report

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Month	Total Nucleated Cells (TNC) Yield (%)	Total Viable Nucleated Cells TVNC (%)	CD34+ Viability (%)
January	98.01	93.30	99.34
February	97.62	95.51	99.23
March	97.90	94.92	99.08
April	97.40	94.55	99.49
May	97.90	94.14	99.35
June	97.62	94.11	99.27
July	97.77	95.48	99.03
August	98.25	94.42	99.05
September	97.85	95.28	99.35
October	97.54	95.07	98.46
November	97.78	95.21	99.14
December	97.88	94.33	98.91
Annual average	97.79	94.69	99.14

Notes:

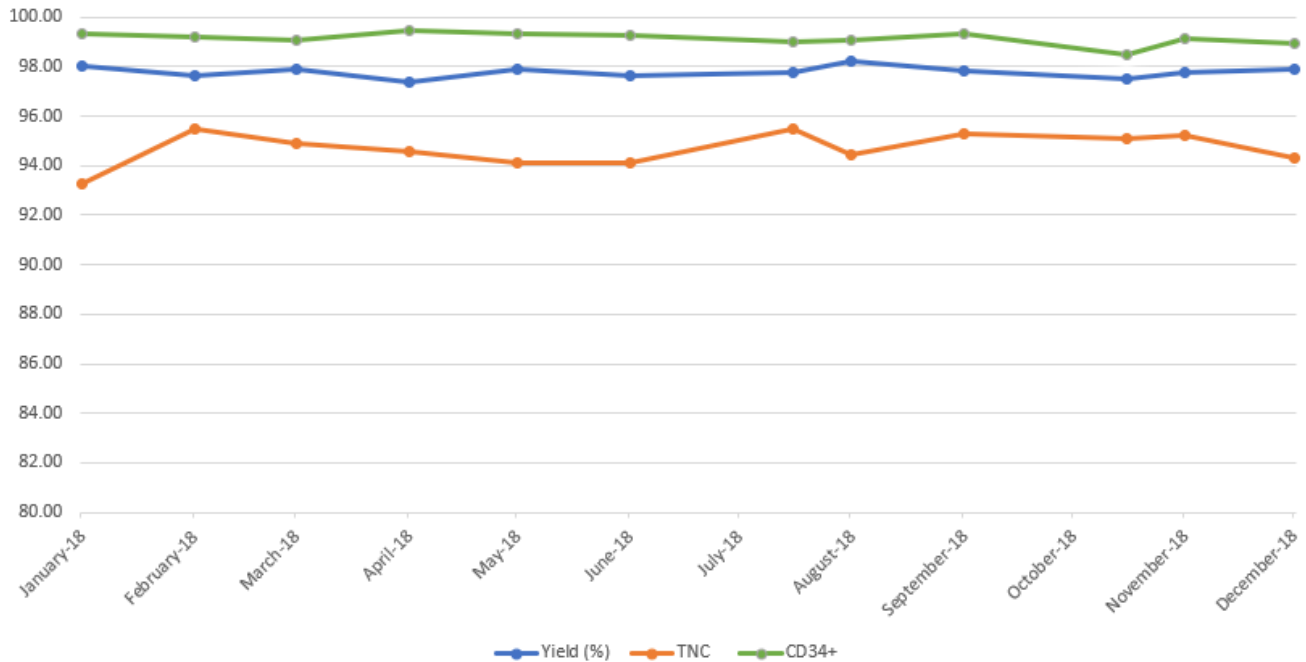
TNC TNC includes all nucleated cells such as stem cells and nucleated red blood cells.

TVNC Viability of total nucleated cells

CD34+ Hematopoietic progenitor cells

Viability Cell viability is a determination of whether cells are living or dead, based on a total cell sample. The viability of cells is evaluated by either measurement of cell membrane integrity or by measuring certain functions of the cells from a total cell sample.

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Notes:

- TNC** TNC includes all nucleated cells such as stem cells and nucleated red blood cells.
- TVNC** Viability of total nucleated cells
- CD34+** Hematopoietic progenitor cells
- Viability** Cell viability is a determination of whether cells are living or dead, based on a total cell sample. The viability of cells is evaluated by either measurement of cell membrane integrity or by measuring certain functions of the cells from a total cell sample.

Conclusion: Comparing Annual Averages

Based on the above data, we can confidently report that for 2018:

- ✓ The average annual percentage yield of **total nucleated cells (TNC)** was: **97.79%**
- ✓ The average annual percentage of **total viable nucleated cells** was: **94.69%**
- ✓ The average annual percentage of **viable CD34⁺** cells was: **99.14%**

The above results have been made possible due to our *modified double stem cell extraction processing technique* which surpasses our internal quality standards by over 10%.

Progenics quality guarantee policy assures that processed cord blood units (CBU) will contain a minimum of 85% yield of total nucleated cells (TNC). Once a client's CBU has been processed, and all processing parameters meet our cord blood bank acceptance criteria, the client will receive a *Certificate of Cryopreservation* which contains quality indicators of cord blood processing results.

After reviewing the data within this report, we can confidently claim that we offer our clients the highest consistent cord blood processing results.