



Customer Testimonial



# Innovative Cell Therapy for Veterinary Medicine

## Introduction

VetCell Therapeutics is a regenerative medicine company focused on generating FDA approved cell-based therapies for use in veterinary medicine taking a 'One Health' approach to develop therapies for animals based on human cell research by parent company PrimeGen Biotech. Cell-based therapies, with their potential to improve the health of patients, represent a major structural shift in the healthcare industry. Success in this field is accomplished by focusing on the underlying causes of disease by repairing, replacing, or regenerating damaged cells in the body.

## User Commentary

*"The NC-200 provides us with accurate and repeatable results we can trust. The automated counter is capable of accurately counting the SVF cells – even though many of the cells are stuck in clumps. This is extremely important for our procedures and the NC-200™ can provide us with trustworthy repeatable results. It is easy to use, fast, and requires no maintenance/calibration. I would recommend the NC-200™ over any trypan blue/hemocytometer automated cell counters on the market."*

Jason Pacchiarotti, Compliance and Quality Manager

Learn more about VetCell at <https://vetcelltherapeutics.com>

## Challenges

VetCell Therapeutics is committed to progressing stem cell research and providing high-quality products, exceptional service and education to the veterinary industry about cell therapies. This requires the ability not only to count cultured MSCs and freshly-isolated stromal vascular fraction (SVF) from adipose tissue but to generate accurate and precisely repeatable results. MSCs and SVF tend to be aggregated which can be technically difficult to count with most counting methods. The Compliance and Quality team tested and evaluated available automated cell counters, as well as traditional counting using trypan blue and a hemacytometer to find the best solution to support cell therapy production under GMP guidance.



## Cell Count Data Management for GMP Environments



The NC-200™ is ideal for regulated laboratory environments and the production and manufacture of cell-based products.

NucleoView™ software is the user interface and automatically handles data acquisition, image analysis, data presentation and data handling features that support use in regulated environments.

NucleoView™ software enables the visual inspection of each fluorescence image and verification of the cell count. Specific event populations can be selected in the scatter plots and examined visually to determine the validity of their inclusion or exclusion from the final cell counting results. The adapted protocol can be then saved for future measurements, increasing reproducibility.