Sample Testing Recommendations

CELLnTEC media have been developed to optimize the isolation and further growth of epithelial cells from human and mouse tissue. We appreciate you conducting a side-by-side test with your current medium to evaluate CELLnTEC medium's performance in your laboratory.

Medium performance is known to be affected by many factors. Please consider the following when designing and conducting your evaluation experiment.

Switching Media

It is common for cells grown in one medium to become accustomed to the medium's component profile. Over several passages, this leads to certain cell sub-populations being preferentially selected, and others being lost from the culture.

Such "selected" populations are more difficult to switch into new media, and should be avoided.

To avoid all the potentially negative effects of switching media and to evaluate the improved progenitor cell retention of the PCT media, the optimal comparison is to freshly isolate cells in both your existing medium and in CELLnTEC medium.

Seeding Density

Cell-cell contact is an important factor in cell growth. As a result, cell growth may be negatively affected by low seeding density. Generally a minimal density of 4'000 cells / cm2 is recommended after passaging, and maybe higher when isolating from difficult species, strains or tissues.

Supplementation

The Prime media range are provided with all supplements already included - no further additions are required. If you are beginning with cells growing in a medium with very different supplementation profile, this may make switching media more difficult.

Trypsinization

Serum free media are not suitable for stopping the trypsinization reaction, as they do not contain the necessary inhibitory proteins. To avoid the use of serum, we recommend Accutase, which can simply be diluted with medium after cell detachment. Accutase is also significantly gentler than Trypsin, and provides a much larger window between detachment and cell damage. Accutase is available from CELLnTEC: CnT-Accutase-100. Please refer to our web site www.cellntec.com for protocols.

Other Variables

Isolation efficiency and culture growth are also affected by variables such as tissue donor, age of donor, species, and animal strain (especially for mice).

For more information about your specific situation, please contact us via scientist@cellntec.com.

Thank you and we look forward to hearing your results.