

Sample Testing Recommendations

CELLnTEC media have been developed to optimize the isolation and further growth of epithelial cells from human, mouse or rat 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:

Seeding Density

- CELLnTEC's defined media encourage the growth of progenitor cells without the need for additional components such as feeder layers, conditioned medium, plate coating or other supplements (i.e. BPE). However at low seeding densities, such factors or treatments may be beneficial – please see the Resources Page on www.cellntec.com for details.

Supplementation

- If you are currently supplementing your medium with non-defined components (e.g. BPE), a specific cell population dependent on these components may have been selected. For a complete and accurate comparison, CELLnTEC media can be tested with and without the non-defined components.

Switching Media

- Cells grown in one medium become accustomed to the medium's component profile, especially if it contains FBS or BPE. Such established cells should be weaned away from their original medium, and allowed at least 10 days in the new medium before testing.

Trypsinization

- Serum free media are not suitable for stopping the trypsinization reaction, as they do not contain the necessary protein concentration. To avoid the use of serum we recommend rProtease, whose reaction does not have to be stopped. Please refer to the Resources Page on www.cellntec.com for protocols.

Age of Cell Culture

- Over several passages, certain cell sub-populations are preferentially selected by the medium formulation. Such "selected" populations require more time to adapt to new media. For optimal comparison we recommend the use of freshly isolated or early passage cultures, or alternatively at least the adaptation period described above.

Other Variables

- Isolation efficiency and culture growth are also affected by variables such as tissue donor, age of donor, species, animal strain (especially for mice), donor age. For more information about your specific situation, please contact CELLnTEC.

Thank you and we look forward to hearing your results.