

# Primary cells versus Cell lines

Lonza



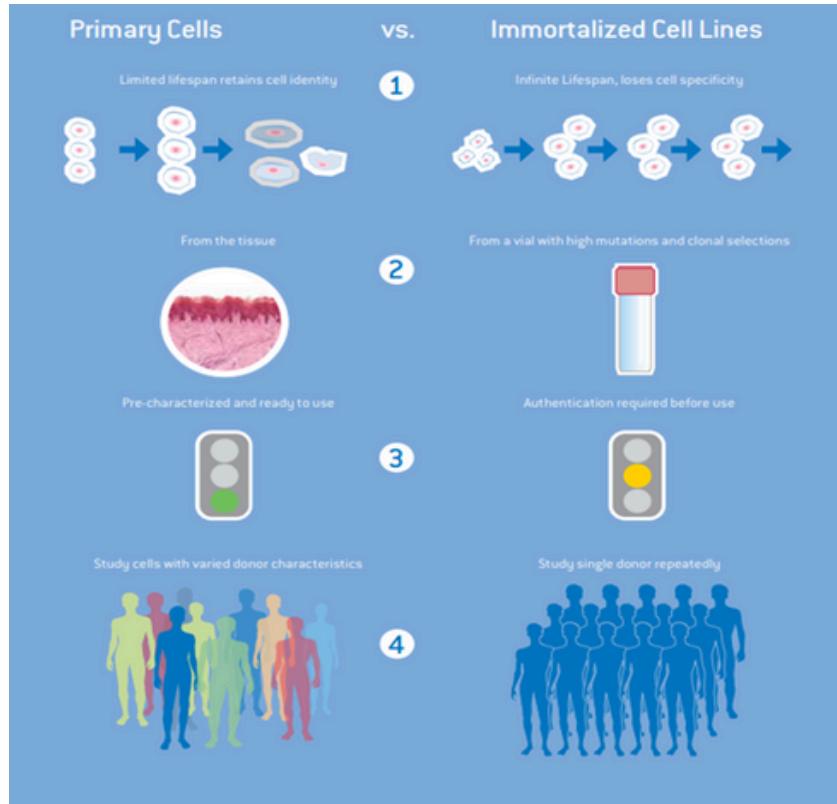
Scientifix is now the Authorised distributor for Lonza in Australia and New Zealand.

## Understanding the differences is necessary for choosing the right cells for your application.

Primary cells, isolated directly from tissues, offer a rich understanding of donors, allowing researchers to consider factors like age, medical history, and race in their experimental setup. Primary cells resemble the tissue from which they were acquired and have low levels of genetic mutations but cannot be passaged indefinitely. Despite their limited lifespan, primary cells capture the complexity of living tissues, crucial for personalized medicine.

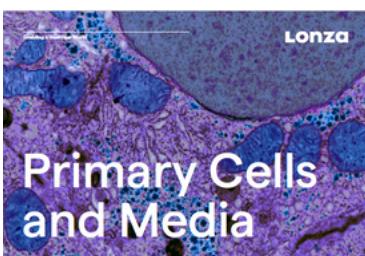
Conversely, cell lines, which are continually passaged and homogenized over time, are used for convenience as they are easy to handle and widely published but they sacrifice biological relevance. Continuous cell lines (mostly derived from tumor tissue), capable of indefinite proliferation, lack the authentic characteristics of the original tissue due to genetic mutations.

While widely used for ease, cell lines fall short in mimicking *in vivo* environments, with serial passaging inducing variations that may lead to misleading results.



## Why choose Lonza primary cells to partner with?

Wide range of commercial primary cells available



LEARN MORE

Lonza provides the media and associate supplements to grow your cells. Therefore, qualified to work



LEARN MORE

Donor information is available on each primary cell. This data helps you answer your research question.

For example: Age, Sex, Race, Height, Smoke, Drink alcohol, Diabetes, HLA typed etc.

Register to get the information.

REGISTER NOW

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1800 007 900 | [lonza@scientifix.com.au](mailto:lonza@scientifix.com.au) | [scientifix.com.au](http://scientifix.com.au)