Agrobacterium Competent Cells

Intact Genomics offers a diverse collection of agrobacterium cells in both electro and chemical varieties.

AGL-1	AGL1 transformation with a binary vector allows for subsequent Agrobacterium-mediated transfor- mation of Arabidopsis thaliana, maize and other monocots. Addition of pSoup available.
C58C1	The C58C1 strain is useful for transgenic operations of potatoes, tobacco and other plants.
EHA105	The EHA105 strain is useful for rice, tobacco and other plants. Addition of pSoup also available.
LBA4404	The LBA4404 strain is useful for transgenic operations of tomatoes, tobacco and other plants.
GV3101	Useful for agrobacterium-mediated genetic transformation of Arabidopsis thaliana, tobacco, corn, potato, and other plants. Addition of pSoup and p19 also available.

ALL NEW AGRO RHIZOGENES CELLS

Ar. A4	Ar. A4 cells are optimized for the highest transformation efficiencies and are useful for transgenic operations of corn, tobacco, carrot and other plants. Ar.A4 Agrobacterium rhizogenes strain contains agrobacterium-type Ri plasmid and displays kanamycin resistance.
Ar. Qual	Has the highest transformation efficiencies and are useful for transgenic operations of corn, tobacco, tomato, citrus and other plants. Ar.Qual Agrobacterium rhizogenes strain contains agrobacterium-type Ri plasmid and displays streptomycin and chloramphenicol resistance.
ATCC15834	Useful for transgenic operations of legumes, tobacco, variety of grasses and other plants. ATCC15834 Agrobacterium rhizogenes strain contains pRi15834 agrobacterium-type Ri plasmid and displays resis- tance to Rifampicin.
MSU440	Used for transgenic operations of corn, tobacco, wormwood, tea tree and other plants. MSU440 Agro- bacterium rhizogenes strain contains agrobacterium-type Ri plasmid and displays streptomycin resistance.
K599	K599 Chemically Competent Agrobacterium are useful for transgenic operations of corn, soybean (wild soybean), cotton, peanut, dandelion, cowpea and other plants. K599 Agrobacterium rhizogenes strain contains pRi2659 agrobacterium-type Ri plasmid and displays streptomycin resistance.
COMBO	Like to try GV3101, AGI-1, LBA4404 and EHA105 strains? We also offer a combination pack!

WE ARE ADDING EVEN MORE PRODUCTS ALL THE TIME... VISIT US ONLINE TO SEE OUR FULL CATALOG!



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Introducing an Innovation in Agriculture: Methionine Auxotrophic Agrobacterium

What are Methionine Auxotrophic Agrobacterium and why use them?

Our new Methionine Auxotrophic Agrobacterium have been engineered to utilize methionine, an essential amino acid, for growth and survival. Methionine Auxotrophic Agrobacterium's growth is halted unless free methionine is added to minimal medium.

Successful transformation often depends on the ability to control Agrobacterium using antibiotics to prevent it from overgrowing the explants, however antibiotics can have undesired effects on the plant tissue. The use of Auxotrophic Agrobacterium minimize this issue and their modifications simplify procedures and increase overall plant transformation efficiency. Ultimately, the use of autotrophs reduces bacterial overgrowth during cocultivation during plant transformation.

Benefits:

- Enables development of more efficient transformation systems
- Reduced bacterial overgrowth during co-cultivation
- Decreased need for antibiotics

LBA4404 _{MET} Chem and Electro	Transgenic operations of tomatoes, tobacco and other plants
EHA105 _{MET}	Transganic aparations of rise, tobasso and other plants
Chem and Electro	Transgenic operations of fice, tobacco and other plants

Intact Genomics partnered with the University of Georgia to offer these exciting products.

References

Prías-Blanco, M., Chappell, T.M., Freed, E.F. *et al.* An *Agrobacterium* strain auxotrophic for methionine is useful for switchgrass transformation. *Transgenic Res* **31**, 661–676 (2022). https://doi.org/10.1007/s11248-022-00328-4



RPA Optimization Enzymes

Intact Genomics has become the world leader in providing Recombinase Polymerase Amplification (RPA) optimization products since launching high-quality RPA related enzymes in 2015. RPA is an excellent candidate for developing rapid point-of-care molecular testing tools as well as agricultural applications and more.



Technique	Incubation Temp (°C)	Incubation Time (mins)	
Recombinase Polymerase Amplification (RPA)	37-42 °C	Less 10	
Polymerase Chain Reaction (PCR)	Thermocycling	20-180	

All of our products are developed, manufactured and shipped from our laboratories in St. Louis, Missouri.



Recombinase Polymerase Amplification (RPA)

Intact Genomics offers a variety of enzymes for RPA technology development and its applications. We are one of the first and the largest suppliers of T4 UvsX DNA recombinase, T4 UvsY protein and other RPA related enzymes.

Item Name	Concentration	Cat #	Pkg Size	Volume	Features
	5 µg/µl	3562	100 µg	20 µl	Important for the error-free repair of DNA double-strand breaks and for replication fork restart.
		3565	500 μg	100 µl	
Recombinase		3567	1000 µg	200 µl	
		3572	100 µg	50 µl	T4 UvsY is the phage T4 recombination
T4 UvsY Protein	2 μg/μl	3575	500 μg	250 μl	mediator protein. It stimulate sthe filament nucleation event.
		3577	1000 µg	500 μl	
T4 gp32 Protein	5 μg/μl	3515	500 µg	100 µl	Single-stranded DNA binding protein required for T4 DNA replication, re-combination, and repair.
Bsu DNA Polymerase Large Fragment	5 units/μl	3585	1,000 units	200 µl	Polymerase useful for extending pri- mers in RPA.
Sau DNA Polymerase Large Fragment	5 units/μl	3595	1,000 units	200 µl	Polymerase useful for extending pri- mers in RPA.

Available RPA Enzymes

Try with our innovative **FastAmpTM Viral & Cell Solution** for robust, convenient results!

In Stock & Fast Shipping

FastAmp[®] Viral and Cell Solution streamlines viral and cell specimen collection and storage



- No RNA extraction is needed
- Safe for sample transport and maintenance
- Speeds up the Covid-19 testing process
- Compatible with all types of viral specimens
- Compatible with different detection technologies
- Increased efficiency, specificity, and sensitivity
- Low toxicity to humans/environment

All of our products are developed, manufactured and shipped from our laboratories in St. Louis, Missouri.



Intact Genomics (ig[®]) DirectPlate[®] chemically competent E. coli cells are the perfect choice for researchers looking to simplify their transformation workflow by eliminating time-consuming heat shock, lengthy incubations, and outgrowth procedures, as illustrated below.



Applications and Benefits

• Save Time

Simplify and shorten transformation workflow by eliminating heat shock, lengthy incubations, and timeconsuming outgrowth procedures.

• Improve Results

Utilizing our scientists' expertise, proprietary technology, and state-of-the-art equipment , Intact Genomics DirectPlate[®] competent cells are manufactured to provide transformation efficiency that is consistently higher than the competition.

Broad Applications

Our competent cells can be used for cloning and library construction, protein expression, phage display, plant research and other applications (we can even make custom DirectPlate[®] Cells!).

• Any Strain

DH10B 5-alpha BL21 (DE3) TG1 DirectPlate XL[™] Custom

All of our products are developed, manufactured and shipped from our laboratories in St. Louis, Missouri.





Simply mix and directly plate!

Intact Genomics has performed extensive comparison testing to prove our DirectPlate-XL[™] DH10B chemically competent cells have the highest transformation efficiency on the market.



DirectPlate-XL[™] DH10B Chemically Competent Cells Comparison Data

DirectPlate-XL[™] DH10B Competent Cells has superior large fragment DNA transformation capabilities vs. competitors.

~100kb DNA Transformation with DirectPlate-XL™ DH10B Chemically Competent Cells



All of our products are developed, manufactured and shipped from our laboratories in St. Louis, Missouri. Contact us for quotes or custom orders:

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