Features & Benefits

- **Versitile** -F' episome eliminates the need to select on minimal media plates
- **High efficiency** - available in ≥10^8 cfu/µg, perfect for routine cloning
- **Easy screening** - with blue/white color selection
- **Convenient size** - small aliquots reduce waste

Applications

- Single-stranded plasmid rescue
- Ideal strain for preparation of high-quality plasmid DNA
- Routine cloning, using λ DNA or plasmid vectors
- Blue/white color screening

Description

BIO*Blue* Chemically Competent Cells provide an ideal host for optimal preparation of both high-quality plasmid and Lambda phage vectors. The BIO*Blue* strain allows blue/white color screening through α-complementation of the ß-galactosidase gene. The *end*A1 phenotype allows production of high-quality plasmid DNA. Single-stranded DNA can be produced from plasmids containing a phage f1 origin.
BIO*Blue* is also an excellent host for M13 and related filamentous phage and supports blue/white plaque screening and phage production. Maintenance of the F' episome in this strain is facilitated via selection with tetracycline, unlike strains such as JM101 which require growth on minimal media.

Notes

Genotype: *rec*A1, *end*A1 *gyr*A96 *thi*-1 *hsd*R17(r_k-, m_k+) *sup*E44 *rel*A1 *lac* [F' *pro*AB*lac*I^qZΔM15 *Tn*10(Tet^r)]

Reagent	**BIO-85036**
Chemically Competent Cells	10 x 100µl
pUC19 control vector (10pg/µl)	100µl

Storage & Stability

All kit components should be stored at -80°C upon receipt. When stored under the recommended conditions and handled correctly, full activity of the kit is retained until the expiry date on the outer box label.

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Shipping conditions

Shipped on Dry Ice or Blue Ice.

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