

## QIAexpress® Data Sheet:

### Genotype analysis of *E. coli* strains SG13009 and M15

1. Both strains harbor a plasmid (pREP4) containing a gene that confers kanamycin resistance, **Km<sup>r</sup>**.
2. Both strains are prototrophs and can grow on salt agar supplemented with 10 µg/ml thiamine-HCl. They do not require additional growth additives such as amino acids and nucleotide bases.
3. Both strains are sensitive to the following:

Streptomycin	100 µg/ml
Rifampicin	50 µg/ml
Nalidixic Acid	20 µg/ml

They therefore have no mutations in **rpsL**, **rpoB**, and **gyrA**.
4. Both strains cannot metabolize the following:

Lactose	( <b>Lac<sup>-</sup></b> )
Mannitol	( <b>Mit<sup>-</sup></b> )

i. e. they contain mutations in the **lac** and **mtl** genes.
5. Data on other genes related to carbohydrate metabolism indicate that the TCA-cycle enzymes correspond to those of the wild type.

Both the M15 and SG13009 strains are derived from *E. coli* K12 and have the phenotype **Nal<sup>S</sup>**, **Str<sup>S</sup>**, **Rif<sup>S</sup>**, **Thi<sup>-</sup>**, **Lac<sup>-</sup>**, **Ara<sup>+</sup>**, **Gal<sup>+</sup>**, **Mit<sup>-</sup>**, **F<sup>-</sup>**, **RecA<sup>+</sup>**, **Uvr<sup>+</sup>**, **Lon<sup>+</sup>**.

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