

Agent Summary – *Escherichia coli* (E. Coli) and E. Coli vectors (not known to contain pathogenic gene of interest)

1. Precaution

Most E. coli strains that do not possess lipopolysaccharide (LPS) and any virulence factor or colonization factor as well as the typical K-12 and B laboratory strains, have very rarely if ever been directly implicated in causing disease.

Strain DH-5alpha is a K-12 derived strain and a recent study has determined that it lacks genes for typical *E. coli* pathogenicity factors.

E. Coli K12 host vector systems that do not carry any biosafety level 2 and above gene of interest.

2. PPE: follow SOP #1.0 donning and doffing procedure

3. Lab area : _____

4. Animal holding area : _____

5. Animal procedure area: _____

Reference

Chart, H. *et al.* Jour. Appl. Microbiol. 2000, **89**, 1048-1058. *An investigation into the pathogenic properties of Escherichia coli strains BLR, BL21, DH5a and EQ1*