

Nissle 1917 (T7) DSM 115365 菌株产品说明书

产品名称	Nissle 1917 (T7), EcNT7, DSM 115365
产品货号	HG-VDD2415
产品用途	大肠杆菌菌株，益生菌
出品公司	DSM（对应 DSM 产品货号 115365）
原核抗性	无
基因型	-
培养基	LB 培养基
培养条件	37℃，有氧
质粒转化条件	42℃ 热激转化或电转化
产品简介	原始的 Nissle 1917 菌株不表达 T7 聚合酶，所以带 T7 启动子的原核表达质粒在 Nissle 1917 菌株中不能表达外源蛋白。而 Nissle 1917 (T7)菌株能够表达 T7 聚合酶，所以可以配套使用带 T7 启动子的原核表达载体如 pET 系列载体。 Strain carries chromosomal integration of T7 polymerase under control of lacUV5 promoter; use for the heterologous expression of heme cofactor; therefore, strain is suitable for expression of genes under control of T7 promoter; the strain is unique in that it is able to take up heme intrinsically from culture media so that heterologously produced proteins can be loaded better with heme cofactor. The plasmid used for gene integration of T7 polymerase into the genome (pUC-T7-FRT-Kan) was removed from chromosome by FLP-FRT-site technique, strain carries neither the plasmid nor antibiotic resistances, vector was excised from the genome by lambda recombination, strain does not contain any remains of the plasmid. The T7 polymerase is necessary for gene expression under control of the T7 promoter, used in expression vectors like the pET or pDuet. (Medium 381, 37 °C)
菌株鉴定	菌株表达特性鉴定：将 pET28a-mCherry、pET28a-EGFP 质粒分别转化至 Nissle 1917 (T7)感受态中，加入 IPTG 诱导，能够顺利表达 mCherry 和 EGFP 荧光蛋白。具体表达鉴定结果请参见《Nissle 1917 (T7)菌株表达特性鉴定》文档。
产品规格	1ml 甘油菌
保存条件	-80℃
菌株扩增	取 100~200ul 甘油菌，接种至 3~5ml 新鲜 LB 培养基（无抗性）中，37℃过夜摇菌即可。也可以先用甘油菌划板，然后挑单克隆，再过夜摇菌。