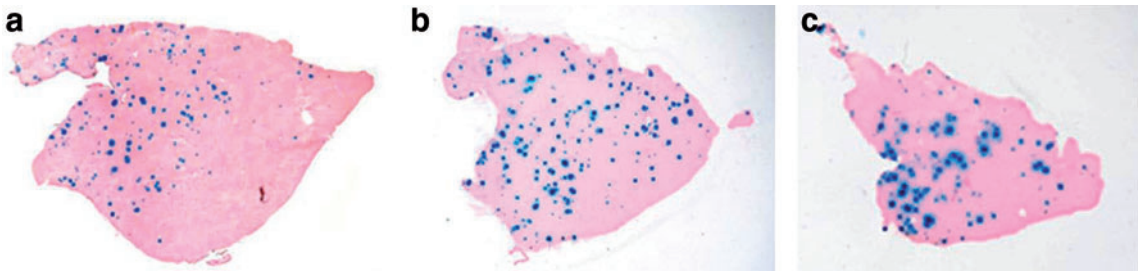
Supplementary Data



SUPPLEMENTARY FIG. 1. β-Galactosidase expression in rat liver after transient Kupffer cell removal and intrabiliary infusion of plasmid DNA (**a**), PEI-DNA nanoparticles (N/P = 10) (**b**), or chitosan-DNA nanoparticles (N/P = 3) (**c**). One day after bile duct infusion, rat livers were harvested and frozen using liquid nitrogen. Cryostat sections of 5–8 μm were cut from different lobes of the liver. The sections were then fixed in PBS containing 0.5% glutaraldehyde at 4°C for 15 min and washed twice with PBS. The sections were stained with a LacZ reporter assay kit (tissue staining) (InvivoGen, San Diego, CA) at 37°C for 3 hr. The stained sections were washed twice with PBS, counterstained with 0.1% (w/v) Nuclear Fast Red for 3 min, then dehydrated and mounted. Naked DNA mediated a significant level of gene expression. Nevertheless, transgene expression was much higher and more widely distributed throughout the liver in PEI-DNA and chitosan-DNA nanoparticle-transfected groups.