**Table2. Detection of transgene fragments in blood samples by TaqMan qPCR and SYBR Green qPCR.**

Transgene fragments were detected in all samples in TaqMan qPCR. IV is intravenous injection, IM is intramuscular injection, and IP is intraperitoneal injection of the hEPO coding naked plasmid. \*\*: p < 0.01 vs Pre in each group. \*: p < 0.05 vs Pre in each group.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Method** | **Group** | **Copy/μL of Transgene** | | | | | | | |
| **Pre** | **1h** | **2h** | **3h** | **6h** | **12h** | **24h** | **48h** |
| **Taqman qPCR** | **IV** | 0 | 739964.7\*\* | 27929.9\*\* | 53345\*\* | 9274.3\*\* | 7948\*\* | 26.5±8.4 | 41.4±12.8 |
| ±423342.3 | ±6674.9 | ±23608.6 | ±2449.9 | ±7408.7 |
| **IM** | 0 | 84334\*\* | 21906.5\*\* | 58617.3\*\* | 14651.9\*\* | 209.8\*\* | 5.5±1.5 | 48.7±18.4 |
| ±12302.6 | ±7682.8 | ±15427.5 | ±4555.5 | ±48.1 |
| **IP** | 0 | 135428.1\*\* | 2655.3\*\* | 2553.3\*\* | 532.2\*\* | 611.6\*\* | 5.3±0.9 | 337.7\*\* |
| ±71292.2 | ±1697.2 | ±1266.9 | ±318.7 | ±542.5 | ±247.4 |
| **SYBR qPCR** | **IV** | 34.9±4.6 | 423512.2\*\* | 3424.8\*\* | 15471.8\*\* | 2249.8\*\* | 1455.3 | 45.4±6.9 | 23.8±2.2 |
| ±249442.4 | ±963.9 | ±8637.2 | ±634.1 | ±1370.1 |
| **IM** | 35.8±2.4 | 31633.2\*\* | 3114\* | 16818 | 4397.9\* | 44.9±8.4 | 25.7±1.2 | 28.7±3.1 |
| ±5109.2 | ±1340.4 | ±4902.1 | ±1546.8 |
| **IP** | 53.4±3.9 | 71880.8 | 235.3 | 441.6 | 107.9 | 74.6±53.3 | 27.6±1.7 | 54.1±25.8 |
| ±44500.8 | ±152.1 | ±217.9 | ±57.9 |