

## CERTIFICATE OF ANALYSIS

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|                             |   |
|-----------------------------|---|
| Product:                    | Alexa fluor dye conjugated suspension of dextran coated iron oxide nanoparticles for cell tracking, magnetic particle imaging and multimodal (optical/MRI) small animal imaging following intravascular injection |
| Trade Name(s):              | Mvivo USPIO FI  |
| SKU#:                       | USPIO-110-05  |
| Core particle size:         | 6 nm ± 2nm  |
| Z-Average (DLS):            | 120.9 nm ± 1 nm   |
| PDI (DLS):                  | 0.213   |
| Z-Potential:                | -4.76 (+/- 0.13) mV   |
| Concentration:              | 5 mg per ml   |
| Particles/ml:               | ~1E+15  |
| Storage buffer:             | PBS   |
| Polydispersity Index (PDI): | 0.213   |
| <b>Expiration Date:</b>     | 2 years from manufacture date   |

***Briefly vortex the particles before use.***

***Store product at 4 to 8 °C. Do NOT FREEZE. If Frozen, Mvivo Au will irreversibly aggregate. When stored as specified the colloidal gold is stable for at least one year from date of manufacture.***