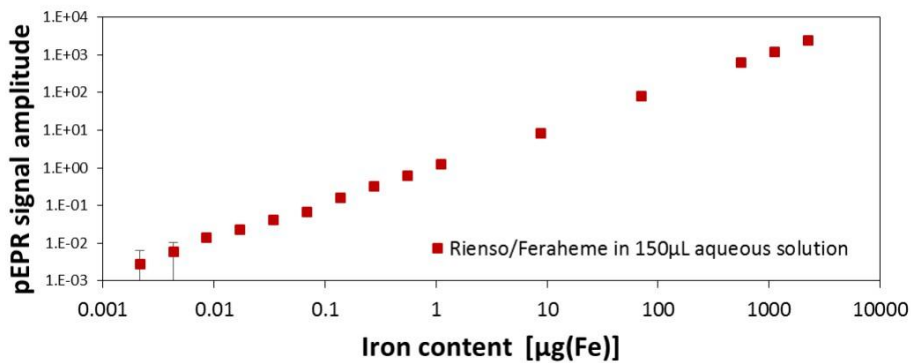


## Compatibility pEPR with commercial particles and particles in development

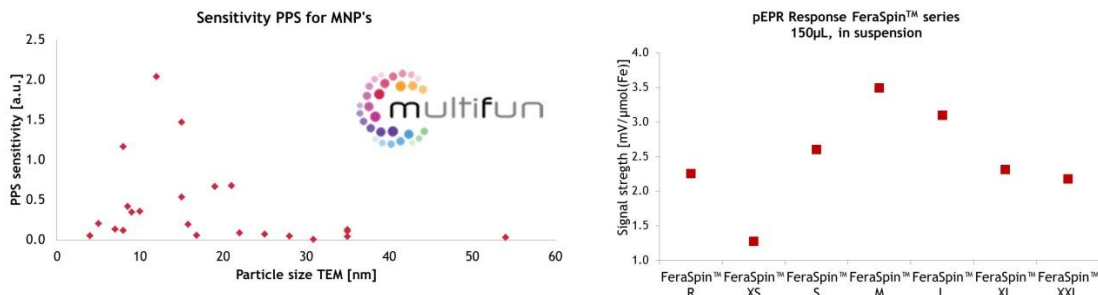
pEPR signals were measured for several particles like Resovist®, Endorem® and Sinerem®, all magnetic contrast agents for MRI. Today Rienso®/Feramide® (FDA approved and commercially available) is taken as the gold standard for which the technology limits of pEPR are compared to previous results or alternative technologies.

The actual **pEPR detection limit is about 10ng(Fe)/150µL** for Rienso® and for Resovist® in aqueous suspension, this comes down to 180 pmol(Fe)/150µL or 67µg(Fe)/L or 1.2µM(Fe). For amounts lower than 10ng the accuracy is higher than 50%, which means that when measuring blind all values lower than 10ng are not discernible from background.

Sensitivity and accuracy  
pEPR



Many more particles were measured. The highest response is expected for particles with core diameter between 5 and 20 nm, although much larger core-size particles were measured with high pEPR-signal amplitude.



More commercial particles for pre-clinical research are tested to demonstrate the broad compatibility of use.