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## Product Datasheet

### Superoxide Anion Colorimetric Assay Kit BYT-ORB1173205

Article Name	Superoxide Anion Colorimetric Assay Kit
Biozol Catalog Number	BYT-ORB1173205
Supplier Catalog Number	orb1173205
Alternative Catalog Number	BYT-ORB1173205-48, BYT-ORB1173205-96
Manufacturer	Biorbyt
Category	Kits/Assays
Product Description	The kit provides a method for detecting the O <sub>2</sub> <sup>-</sup> content in biological samples such as tissues, serum, and cells. The superoxide anion reacts with hydroxylamine hydrochloride to produce NO <sub>2</sub> <sup>-</sup> , which then reacts with Gris reagent....
Range	0.0125-0.5 mg/mL
Sensitivity	0.0125 mg/mL
Application Notes	Application Notes: The kit provides a simple method for detecting the O <sub>2</sub> <sup>-</sup> content in a variety of biological samples such as animal tissues, plant tissues, serum, cells . In the assay, The superoxide anion in variety of biological samples reacts with hydroxylamine hydrochloride to produce NO <sub>2</sub> <sup>-</sup> , and NO <sub>2</sub> <sup>-</sup> reacts with Gris reagent. The mechanism of Gris analysis is summarized as the azo coupling between diazoniums, which is It is produced by sulfonamides and NO <sub>2</sub> <sup>-</sup> and N-(1-naphthyl)ethylenediamine dihydrochloride to generate a red azo compound with a characteristic absorption peak at 540nm. The O <sub>2</sub> <sup>-</sup> content in the sample can be calculated based on the A <sub>540</sub> value