Dextran Sulfate Sodium Salt (DSS) is a polyanionic derivative of Dextran. MP Premium DSS is offered at the highest quality, purity, and reproducible form which enable it for multiple applications in clinical, molecular biology, biomedical and possibly for cosmetic applications.

- Water soluble polyanion
- Forms a clear solution and mimics natural mucopolysaccharides
- High purity and good stability
- Readily degradable by ecological systems; acts as a stabilizer to sensitive natural ingredients

MP Premium Dextran Sulfate Sodium Salt from MP Biomedicals is one of the most widely used product based on peer reviewed scientific publications. Over the past 15 years, 3,000+ scientific publications have cited the use of our DSS. Hence when you select one of our DSS offerings, you can be assured of the performance based on quality, performance and validity.

- Validated by 3,000+ scientific publications
- Highest purity (99%) and stability
- Offers highest sulfur content (18-20%) < 0.2% free sulfate
- Highest efficiency

MP Biomedicals - It’s What’s Inside That Counts!
**MP Biomedicals**

**Dextran Sulfate Sodium Salt**

Inflammatory Bowel Disease (IBD) is characterized by chronic and relapsing inflammation of the gastrointestinal tract which is associated with increased risk of developing colitis-associated cancer. Several animal models have been used to study colitis and one such model involves the oral administration of dextran sulfate sodium salt (DSS) in the drinking water of mice leading to chronic colitis. This DSS induced colitis model is spontaneous and is used to assess the therapeutic potential of treatments for IBD.

Accelerate your IBD research with the most validated and attested Dextran Sulfate Sodium Salt. Our MP Premium DSS is well characterized and offers the following advantages:

- Highest sulfur content – 19%
- Highest chirality - +104° of specific rotation
- Lowest pH – 6.2 at 1% solution

Bamba et al (2012) performed a comparative analysis of 3 different DSS preparations to examine the chemical and cytotoxic properties as well as severity of colitis. Their study concluded that the DSS from MP Biomedicals induced a severe colitis as indicated by body weight transition, DAI score, colon weight/length and histological scores (Figure 1).

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**Dextran Sulfate Sodium Salt**

**(36,000-50,000 Da)**

The mice were fed normal chow and 2.0% wt/wt DSS in water for 1 week and then sacrificed. The weight of individual mice was monitored daily. The data represent means±SD (data obtained from Bamba et.al., 2012)

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**Cat. No.** | **Description** | **Pack Size**
--- | --- | ---
ICN16011010 | Dextran Sulfate Sodium Salt | 10 g
MP216011025 | Dextran Sulfate Sodium Salt | 25 g
ICN16011050 | Dextran Sulfate Sodium Salt | 50 g
ICN16011080 | Dextran Sulfate Sodium Salt | 100 g
ICN16011090 | Dextran Sulfate Sodium Salt | 500 g

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Increased Susceptibility to Dextran Sulfate Sodium-Induced Colitis in the Endoplasmic Reticulum Stress Transducer OASIS Deficient Mice

(C) Western blotting of OASIS in the large intestine from 8-week-old mice. Both full-length OASIS (full OASIS) and the N-terminal OASIS (N-OASIS) were detected in the large intestine. (D) HE (upper panels) and PAS (lower panels) staining of the large intestines from 8-week-old WT and Oasis−/− mice. In the Oasis−/− large intestine, the number of mature goblet cells containing large mucosal granules was markedly decreased compared with that in WT mice. doi:10.1371/journal.pone.0088048.g001


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