**Dextroamphetamine Sulfate USP**

**ITEM CODE** 1950

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**CAS REGISTRY NO.**
51-63-8

**FORMULA**
\((C_9H_{13}N)_2\cdot H_2SO_4\)

**MOLECULAR WEIGHT**
368.49

**APPEARANCE**
White to off-white solid

**IDENTIFICATION**

(A) IR: Matches reference standard (USP)

(B) Major Peaks: Matches reference standard

(C) Sulfate: Meets USP requirements (USP)

**LOSS ON DRYING (USP)**
1.0% Max

**SPECIFIC ROTATION (DRIED BASIS) (USP)**
\(+20^\circ\) to \(+23.5^\circ\)

**RESIDUE ON IGNITION (USP)**
0.1% Max

**pH (USP)**
5.0 – 6.0

**ORDINARY IMPURITIES (USP)**
- Individual impurity (each): 0.1% Max
- Total impurities: 0.5% Max

**ASSAY (HPLC) (DRIED BASIS)**
98.0 – 102.0% w/w

**RELATED SUBSTANCES**
- Cathinone Sulfate: 0.15% w/w
- Benzaldehyde: 0.15% w/w
- 1-Phenyl-2-Propanol: 0.15% w/w
- Phenylacetone: 0.15% w/w
- Unknown rel. subs. (each): 0.10% w/w Max
- Total rel. subs.: 0.50% w/w Max

**NICKEL (as Ni) (ICP)**
25 ppm Max

**RESIDUAL SOLVENTS (GC)**
- Methanol: 3000 ppm Max
- Ethanol: 5000 ppm Max
- Chloroform: 60 ppm Max

**DEXTROAMPHETAMINE SULFATE** is a sympathomimetic agent with indirect effects on adrenergic receptors. It has alpha-and beta-adrenergic activity. It has actions qualitatively similar to those of Amphetamine Sulfate but is approximately twice as potent. Dextroamphetamine Sulfate is indicated for the adjunctive treatment of narcolepsy.

Dextroamphetamine Sulfate, Amphetamine Sulfate, Dextroamphetamine Saccharate and Amphetamine Aspartate, in fixed combination, are indicated for the treatment of Attention Deficit/Hyperactivity Disorder (ADHD), most commonly diagnosed as a childhood disorder. This combination product is an integral part of a total treatment program, which typically includes other remedial measures (psychological, educational, social) for a stabilizing effect in children with behavioral syndrome characterized by moderate to severe distractibility, short attention span, hyperactivity, emotional liability and impulsivity.

**Common Trade Name: Dexedrine®, Adderall®**

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