**N-Desmethyl Sildenafil (citrate)**  
*Item No. 10010587*

**Formal Name:** 5-[2-ethoxy-5-(1-piperazinylsulfonyl)phenyl]-1,6-dihydro-1-methyl-3-propyl-7H-pyrazolo[4,3-d]pyrimidin-7-one, 2-hydroxypropane-1,2,3-tricarboxylic acid

**MF:** C_{21}H_{28}N_{6}O_{4} 5 • C_{4}H_{8}O_{7}

**FW:** 652.7

**Purity:** ≥98%

**UV/Vis.:** λ_{max} 212, 295 nm

**Supplied as:** A crystalline solid

**Storage:** -20°C

**Stability:** ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

**Laboratory Procedures**

N-Desmethyl sildenafil (citrate) is supplied as a crystalline solid. A stock solution may be made by dissolving the N-desmethyl sildenafil (citrate) in the solvent of choice. N-Desmethyl sildenafil (citrate) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of N-desmethyl sildenafil (citrate) in these solvents is approximately 10 and 14 mg/ml, respectively.

**Description**

N-Desmethyl sildenafil is a major metabolite of sildenafil (Item Nos. 10008671 | 14008).\(^1\)\(^-\)\(^3\) N-Desmethyl sildenafil is formed via oxidative metabolism of sildenafil by the cytochrome (CYP) P450 isoforms CYP3A4, CYP3A5, and CYP3A7.\(^3\)

**References**