



## CERTIFICATE OF ANALYSIS

**PRODUCT:** **Diphenyleneiodonium chloride**  
[Dibenziodolium chloride]  
C<sub>12</sub>H<sub>8</sub>ICI, M.W. 314.5, CAS # [4673-26-1]

**PRODUCT NUMBER:** D-1011

**LOT NUMBER:** A9205C

**APPEARANCE:** White solid

**SOLUBILITY:** 10 mg/ml soluble in warm DMSO.

**MELTING POINT:** 332–333°C (dec.)

**PURITY (TLC):** Rf: 0.3, one spot

<b>ELEMENTAL ANALYSIS:</b>	<b>SPECIFICATIONS:</b>	<b>RESULTS:</b>
	C: 45.82%	C: 45.77%
	H: 2.56%	H: 2.53%
	Cl: 11.27%	Cl: 11.28%
	I: 40.34%	I: 40.21%

**FURTHER INFORMATION:** Binds strongly to flavoproteins and is thus a powerful and specific inhibitor of several important enzymes, including nitric oxide synthase (NOS), NADPH-ubiquinone oxidoreductase, NADPH oxidases and NADPH cytochrome P450 oxidoreductase. Nitric oxide synthase, which shows significant homology with cytochrome P450 reductase, has shown to be irreversibly inhibited by this compound.

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## STORAGE & HANDLING:

Keep cool and dry at  $-20\text{ }^{\circ}\text{C}$ .

**PROTECT FROM LIGHT! WARNING: HARMFUL!**

CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KT