

# DATASHEET

## Neutral Red Solution (0.33%)

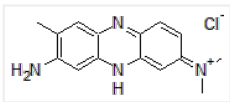
### Product overview

<b>Name</b>	Neutral Red Solution (0.33%)
<b>Cat No</b>	HB0807
<b>Alternative names</b>	Basic Red 5, C.I. Basic Red 5, Neutral Red W, Toluylene red
<b>Biological description</b>	Commonly used histological stain which stains lysosomes red. It can also be used as a counterstain with other dyes.
<b>Biological action</b>	It is frequently used as part of the neutral red uptake assay to provide a quantitative estimation of the number of viable cells in a culture.
<b>Description</b>	Dyes & stains Commonly used histological stain

### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in water
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	3-Amino-7-dimethylamino-2-methylphenazine hydrochloride
<b>Molecular Weight</b>	288.78
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>15</sub> H <sub>17</sub> N <sub>4</sub> Cl
<b>CAS Number</b>	553-24-2
<b>PubChem identifier</b>	11105
<b>SMILES</b>	CC1=CC2=NC3=C(C=C(C=C3)N(C)C)N=C2C=C1N.Cl
<b>InChiKey</b>	PGSADBUBUOPOJS-UHFFFAOYSA-N
<b>MDL number</b>	MFCD00012651

### References

#### Neutral red uptake assay for the estimation of cell viability/cytotoxicity

Repetto G *et al* (2008) Nat Protoc 3(7)  
**PubMedID** [18600217](#)

#### The use of the dye neutral red as a specific, non-toxic, intra-vital stain of islets of Langerhans

Gray DW *et al* (1983) Br J Exp Pathol 64(5)  
**PubMedID** [6196045](#)

#### Assaying Cellular Viability Using the Neutral Red Uptake Assay

Ates G *et al* (2017) Methods Mol Biol 1601

