

DATASHEET

Neutral Red Solution (0.33%)

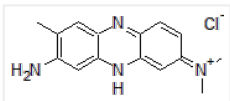
Product overview

Name	Neutral Red Solution (0.33%)
Cat No	HB0807
Alternative names	Basic Red 5, C.I. Basic Red 5, Neutral Red W, Toluylene red
Biological description	Commonly used histological stain which stains lysosomes red. It can also be used as a counterstain with other dyes. 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.
Biological action	Dyes & stains
Description	Commonly used histological stain

Solubility & Handling

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

Chemical Data

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

PubMedID

28470514
