

**DSM1**

**Catalog No. MRA-1161**

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**Product Description:** Formula name: 5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)naphthalen-2-ylamine

**Lot: 60538464**

**Manufacturing Date: 31OCT2011**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by proton NMR</b>	Provide structural formula and H NMR spectra	Attach file with spectrum H NMR spectra data for compound is attached.
<b>Appearance</b>	White Powder	Report appearance White Powder
<b>Solubility</b>	Test in DMSO as solvent	Report solubility/solvent 100% soluble in DMSO
<b>Functional Activity</b>  <b>Antimalarial activity <i>in vitro</i></b>	Determine half-maximal inhibitory concentration (IC <sub>50</sub> ), in <i>Plasmodium falciparum</i> <i>in vitro</i> culture	Report results and method used to determine the concentration. DSM1 inhibited growth of MRA-151 <i>P. falciparum</i> 3D7A with an IC <sub>50</sub> = 56.2 ± 3.9 nM and MRA-150 <i>P. falciparum</i> Dd2 with an IC <sub>50</sub> = 58.3 ± 1.3 nM, respectively using a SYBR Green I <sup>®</sup> anti-malarial drug sensitivity assay in 96 well plate <i>in vitro</i> culture (Hartwig et al. Methods in Malaria Research 5 <sup>th</sup> edition, 2013). Log drug concentration - growth inhibition curve is attached.

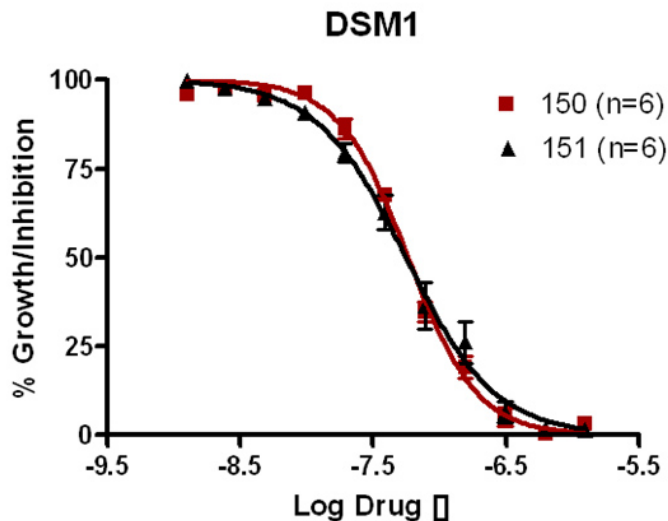
Date: 8/1/2013

Signature: 

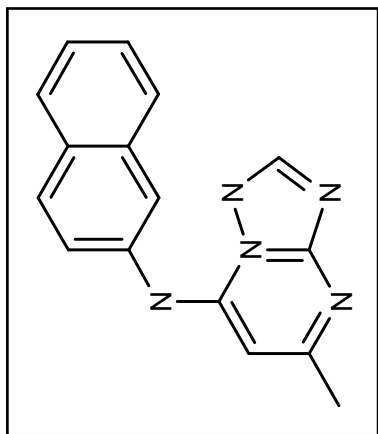
**Title:** Technical Manager or designee, BEI Resources

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**Antimalarial Activity *in vitro*:** Growth inhibition by Log Drug concentration (molar) for MRA-1161 DSM1 Lot 60538464 *in vitro* in MRA-151 *Plasmodium falciparum* 3D7 (151) and MRA-150 *P. falciparum* Dd2 (150). DSM1 growth inhibition was observed with calculated  $IC_{50}$  values of  $IC_{50} = 56.2 \pm 3.9$  nM for *P. falciparum* 3D7A and  $IC_{50} = 58.3 \pm 1.3$  nM for *P. falciparum* Dd2 respectively.



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