

**Data sheet**

This data sheet provided for information only

**5X Ampli<sup>OGT</sup> Buffer****RESEARCH USE ONLY****Ready-to-load amplification buffer**

Cat.No.	Pack	Conc.
<b>RL-201-O</b>	<b>1ml</b>	<b>5 X</b>
<b>RL-202-O</b>	<b>5ml</b>	<b>5 X</b>

**Stability:**

Shelf life 12 months if store at -20°C

**CONTENT:**

166mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>; 670mM Tris-HCL ( pH 8.8 at 25°C); 0.1% Tween-20, stabilizers/enhancers, dye ( **orange** color) for direct gel loading

**DESCRIPTION**

**5X Ampli<sup>OGT</sup> Buffer** is recommended for PCR amplification of DNA templates from various sources.

**5X Ampli<sup>OGT</sup> Buffer** is optimized for high specific amplification of DNA with Taq/Tth-based Polymerases (DiaTaq/SmarTaq, DiaHYTaq, and Tth).

**5X Ampli<sup>OGT</sup> Buffer** MgCl<sub>2</sub> free.

**5X Ampli<sup>OGT</sup> Buffer** contains **specific additives for thermostabilization** of PCR enzymes during PCR amplification, **Orange inherent dye** and allows **direct load** of after PCR sample to the gel for electrophoresis without any other manipulations.

**Recommended PCR assay**

50ml PCR assay		Final Conc.
0.5µl	DiaTaq/SmarTaq Pol	2.5U
10µl	<b>5X Ampli<sup>OGT</sup> Buffer</b>	1X
1.5-2.5µl	50mM MgCl <sub>2</sub> Solution	1.5-2.5mM
4µl	2.5mM dNTP's MIX	0.2mM each
0.2-1.0µl	each Primer	
Variable*	DNA Template	
To 50µl	PCR Grade Water	

\*- depending on DNA template initial concentration  
For 25µl PCR assay all reagents should be reduced proportionally.

**APPLICATIONS:**

- Routine PCR
- Primer extension
- DNA sequencing
- Low-copy PCR (SmarTaq Polymerase)
- Multiplex PCR

**STORAGE CONDITIONS :**

Store **5X Ampli<sup>OGT</sup> Buffer** at -20°C (for long term storage).

**SHIPPING CONDITIONS:**

Should be shipped at ambient temperature

For long distance shipments preferably in **Blue Ice**