

Alt-R™ CRISPR reagent stability

IDT has tested the stability of the Alt-R CRISPR reagents, including Cas nucleases, guide RNAs (gRNAs), and HDR enhancer. In addition, IDT has specifically tested the stability of ribonucleoproteins (RNPs), i.e., Cas nucleases in complex with gRNA. All of the tested reagents demonstrated high stability under a wide range of storage conditions as summarized [here](#).

		Storage temperature			
		-80°C	-20°C	4°C	23°C
Alt-R CRISPR nucleases	<ul style="list-style-type: none"> Cas9 V3 Cas12a V3 HiFi Cas9 	Stable up to 2 years in stock storage buffer	Stable up to 2 years in stock storage buffer	Stable up to 2 months in stock storage buffer	Stable up to 3 days in stock storage buffer
	<ul style="list-style-type: none"> Cas12a <i>Ultra</i> Cas9 D10A Nickase 	Stable up to 1 year in stock storage buffer	Stable up to 1 year in stock storage buffer		
Alt-R CRISPR ribonucleoprotein complexes	<ul style="list-style-type: none"> Cas12a V3 complexed with Alt-R CRISPR-Cas12a crRNA 	Stable up to 2 years	Stable up to 2 years	Stable up to 2 months	Stable up to 3 days
	<ul style="list-style-type: none"> Cas9 V3 complexed with 2-part guide RNA, made of Alt-R CRISPR-Cas9 crRNA plus Alt-R CRISPR-Cas9 tracrRNA 	Stable up to 1 year	Stable up to 1 year		
	<ul style="list-style-type: none"> Cas12a <i>Ultra</i> complexed with Alt-R CRISPR-Cas12a crRNA 				
Alt-R CRISPR guide RNAs	<ul style="list-style-type: none"> CRISPR-Cas9 sgRNA 	Stable up to 18 months: <ul style="list-style-type: none"> lyophilized or hydrated in Nuclease-Free Water or IDTE pH 7.5 	Stable up to 18 months: <ul style="list-style-type: none"> lyophilized or hydrated in Nuclease-Free Water or IDTE pH 7.5 	<ul style="list-style-type: none"> Stable up to 18 months hydrated in Nuclease-Free Water or IDTE pH 7.5 Lyophilized: long-term storage not recommended 	<ul style="list-style-type: none"> Stable up to 18 months hydrated in Nuclease-Free Water or IDTE pH 7.5 Lyophilized: long-term storage not recommended
	<ul style="list-style-type: none"> CRISPR-Cas9 crRNA CRISPR-Cas9 crRNA XT 	Stable up to 1 year: <ul style="list-style-type: none"> lyophilized or hydrated in Nuclease-Free Water or IDTE pH 7.5 	Stable up to 1 year: <ul style="list-style-type: none"> lyophilized or hydrated in Nuclease-Free Water or IDTE pH 7.5 	<ul style="list-style-type: none"> Stable up to 1 year hydrated in Nuclease-Free Water or IDTE pH 7.5 Lyophilized: long-term storage not recommended 	<ul style="list-style-type: none"> Stable up to 1 year hydrated in Nuclease-Free Water or IDTE pH 7.5 Lyophilized: long-term storage not recommended
	CRISPR-Cas9 tracrRNA		Stable up to 2 years: <ul style="list-style-type: none"> lyophilized or hydrated in Nuclease-Free Water or IDTE pH 7.5 	Stable up to 2 years: <ul style="list-style-type: none"> lyophilized or hydrated in Nuclease-Free Water or IDTE pH 7.5 	<ul style="list-style-type: none"> Stable up to 1 year hydrated in Nuclease-Free Water or IDTE pH 7.5 (not tested beyond 1 year) Stable up to 2 years lyophilized
	Labeled tracrRNA, ATTO™ 550		Stable up to 2 years: <ul style="list-style-type: none"> lyophilized or hydrated in Nuclease-Free Water or IDTE pH 7.5 	<ul style="list-style-type: none"> Stable up to 6 months hydrated in Nuclease-Free Water or IDTE pH 7.5 Stable lyophilized up to 18 months 	<ul style="list-style-type: none"> Stable up to 6 months hydrated in Nuclease-Free Water or IDTE pH 7.5 Stable lyophilized up to 18 months
	gRNA 2-part complex, made of CRISPR-Cas9 crRNA plus CRISPR-Cas9 tracrRNA			Stable up to 2 years in IDTE pH 7.5	Stable up to 6 months in IDTE pH 7.5
Alt-R CRISPR enhancing reagents	HDR Enhancer	Stable up to 1 year stored at stock concentration	Stable up to 1 year stored at stock concentration	Stable up to 1 year stored at stock concentration	Stable up to 1 year stored at stock concentration

For Research Use Only. Not for use in diagnostic procedures.

© 2020 Integrated DNA Technologies, Inc. All rights reserved. Alt-R is a trademark of Integrated DNA Technologies, Inc., and is registered in the USA. ATTO is a trademark of ATTO-TEC GmbH. All other marks are the property of their respective owners. For specific trademark and licensing information, see www.idtdna.com/trademarks. CRS-10202-QR 7/2020

