

c (ng/ul)	log c
75	1.875061
7.5	0.875061
0.75	-0.1249387
0.075	-1.1249387
0.0075	-2.1249387
0.00075	-3.1249387

GAPDH		gen 1		g
Vzorek	Ct	Vzorek	Ct	Vzorek
undil		undil		undil
undil		undil		undil
undil		undil		undil
undil		∅		∅
undil		10x		10x
undil		10x		10x
∅		10x		10x
10x		∅		∅
10x		100x		100x
10x		100x		100x
10x		100x		100x
10x		∅		∅
10x		1000x		1000x
∅		1000x		1000x
100x		1000x		1000x
100x		∅		∅
100x		10 000x		10 000x
100x		10 000x		10 000x
100x		10 000x		10 000x
100x		∅		∅
∅		100 000x		100 000x
1000x		100 000x		100 000x
1000x		100 000x		100 000x
1000x		∅		∅
1000x				
1000x				
1000x				
∅				
10 000x				
10 000x				
10 000x				
10 000x				

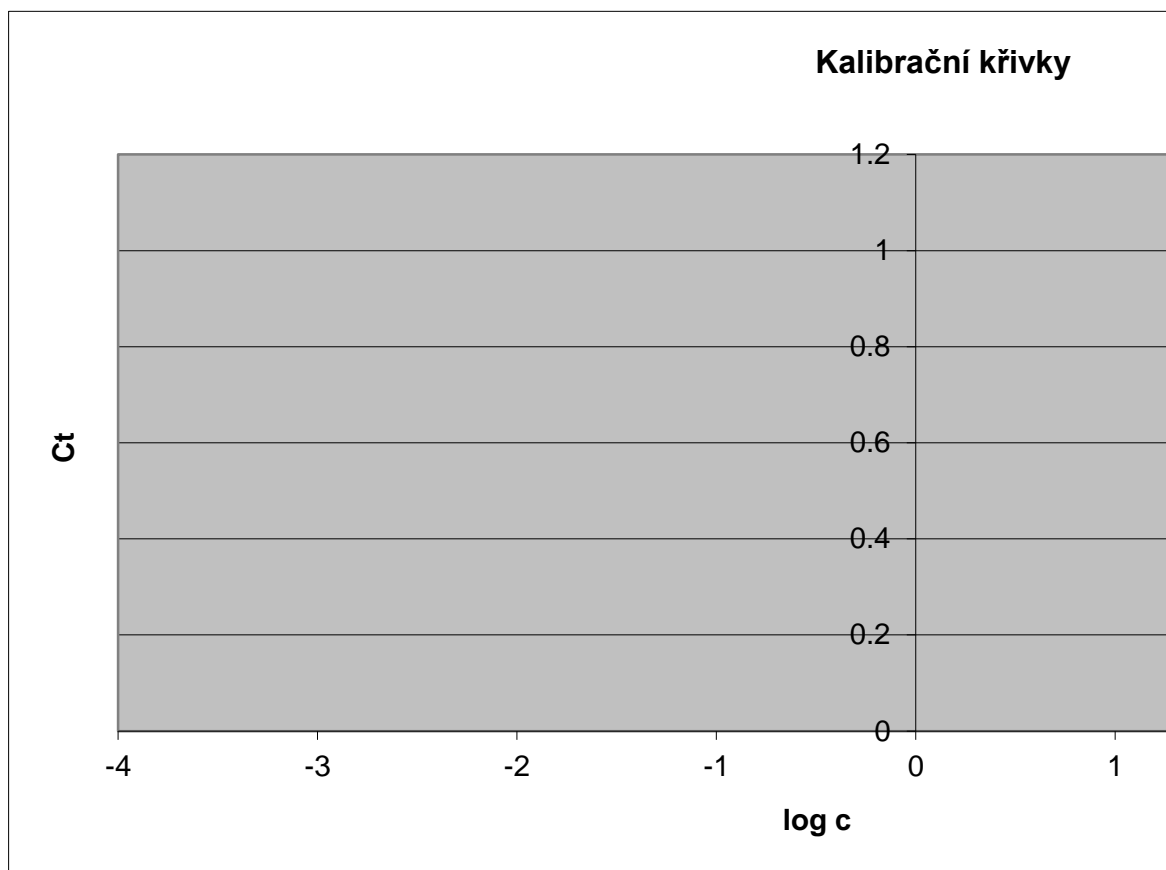
10 000x	
10 000x	
∅	
100 000x	
100 000x	
100 000x	
100 000x	
100 000x	
100 000x	
∅	

**Kontroly**

NTC		
GAPDH	gen 1	gen 2
noRT		
GAPDH	gen 1	gen 2







GAPDH  $y =$

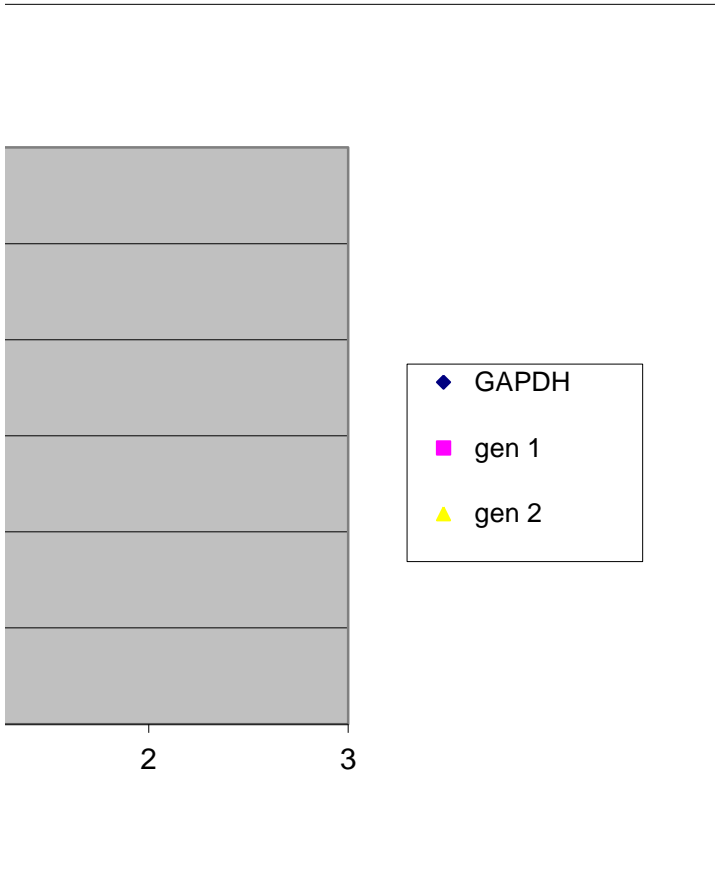
$$E = (10^{-1/k} - 1) \times 100 = \%$$

gen 1  $y =$

$$E = (10^{-1/k} - 1) \times 100 = \%$$

gen 2  $y =$

$$E = (10^{-1/k} - 1) \times 100 = \%$$



**S 20% FBS**

<b>GAPDH</b>		<b>gen 1</b>	
<b>Vzorek</b>	<b>Ct</b>	<b>Vzorek</b>	<b>Ct</b>
cDNA		cDNA	
cDNA		cDNA	
cDNA		cDNA	
∅		∅	
EtOH 1 µl		EtOH 1 µl	
EtOH 1 µl		EtOH 1 µl	
EtOH 1 µl		EtOH 1 µl	
∅		∅	
EtOH 2 µl		EtOH 2 µl	
EtOH 2 µl		EtOH 2 µl	
EtOH 2 µl		EtOH 2 µl	
∅		∅	
<b>GAPDH</b>		<b>gen 2</b>	
<b>Vzorek</b>	<b>Ct</b>	<b>Vzorek</b>	<b>Ct</b>
cDNA		cDNA	
cDNA		cDNA	
cDNA		cDNA	
∅		∅	
EtOH 1 µl		EtOH 1 µl	
EtOH 1 µl		EtOH 1 µl	
EtOH 1 µl		EtOH 1 µl	
∅		∅	
EtOH 2 µl		EtOH 2 µl	
EtOH 2 µl		EtOH 2 µl	
EtOH 2 µl		EtOH 2 µl	
∅		∅	



**S 20% FBS**

GAPDH		gen 1		gen 2
Vzorek	Ct	Vzorek	Ct	Vzorek
cDNA		cDNA		cDNA
cDNA		cDNA		cDNA
cDNA		cDNA		cDNA
∅		∅		∅

**Bez 20% FBS**

GAPDH		gen 1		gen 2
Vzorek	Ct	Vzorek	Ct	Vzorek
cDNA		cDNA		cDNA
cDNA		cDNA		cDNA
cDNA		cDNA		cDNA
∅		∅		∅



**DUPLEX**

<b>Bez 20% FBS</b>		
<b>GAPDH</b>		<b>gen 1</b>
<b>Vzorek</b>	<b>Ct</b>	<b>Vzorek</b>
cDNA		cDNA
cDNA		cDNA
cDNA		cDNA
∅		∅
<b>GAPDH</b>		<b>gen 2</b>
<b>Vzorek</b>	<b>Ct</b>	<b>Vzorek</b>
cDNA		cDNA
cDNA		cDNA
cDNA		cDNA
∅		∅

<b>Vzorek</b>	<b>gen 1</b>	<b>GAPDH</b>
<b>S 20% FBS</b>		
<b>Bez 20% FBS</b>		
<b>Vzorek</b>	<b>gen 2</b>	<b>GAPDH</b>
<b>S 20% FBS</b>		
<b>Bez 20% FBS</b>		

**SINGLEPLEX**

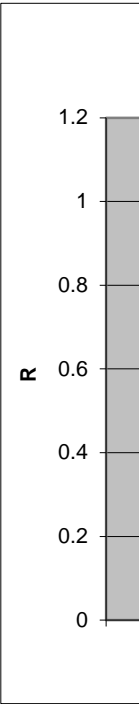
<b>Ct</b>

<b>Ct</b>

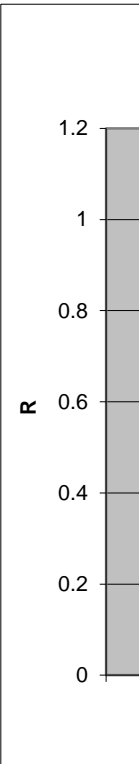
<b>Vzorek</b>	<b>gen 1</b>	<b>GAPDH</b>
<b>S 20% FBS</b>		
<b>Bez 20% FBS</b>		
<b>Vzorek</b>	<b>gen 2</b>	<b>GAPDH</b>
<b>S 20% FBS</b>		
<b>Bez 20% FBS</b>		



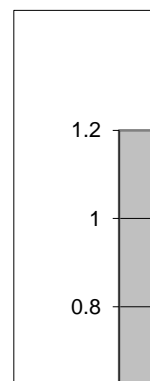
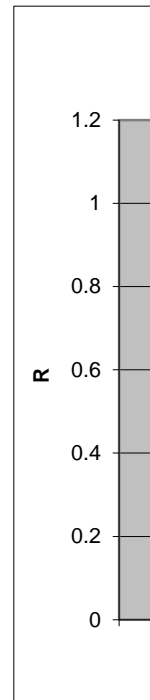
<b>Ct</b>
<b>Ct</b>

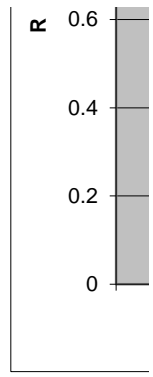


$\Delta Ct$	$\Delta\Delta Ct$	R
$\Delta Ct$	$\Delta\Delta Ct$	R



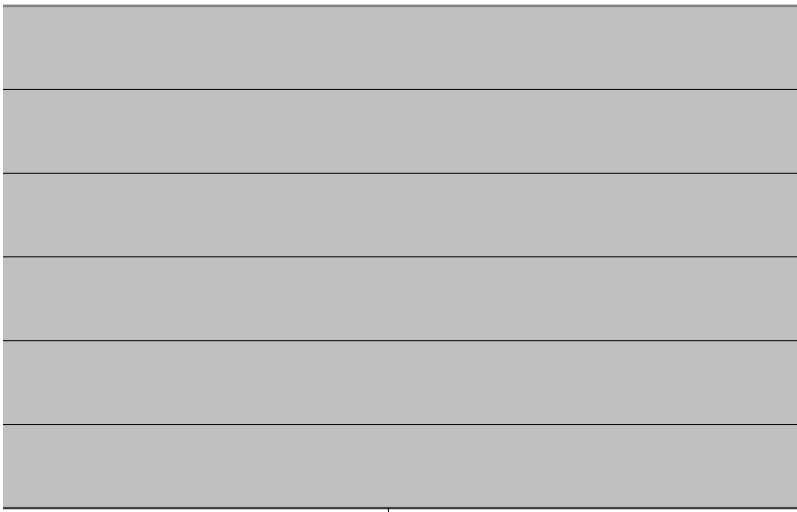
$\Delta Ct$	$\Delta\Delta Ct$	R
$\Delta Ct$	$\Delta\Delta Ct$	R







**Normalizovaná exprese genu 1 vůči GAPDH**



1 S 20% FBS

2 Bez 20% FBS

**Normalizovaná exprese genu 2 vůči GAPDH**

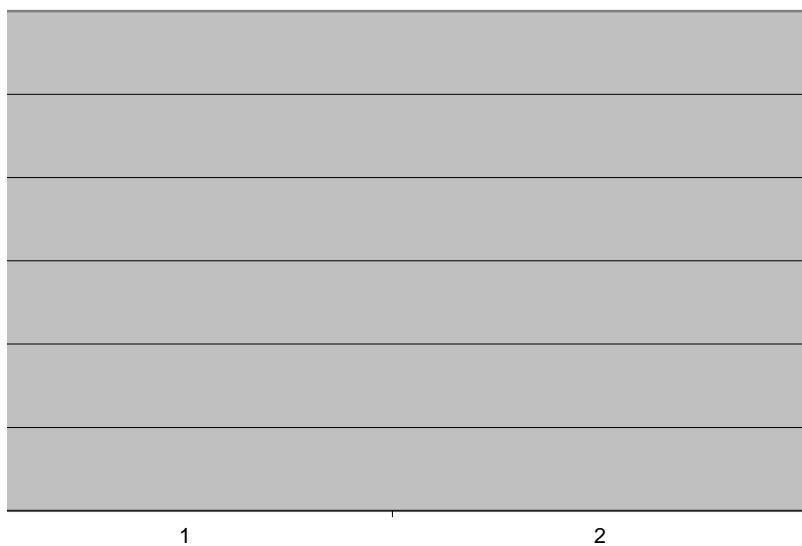


1

2

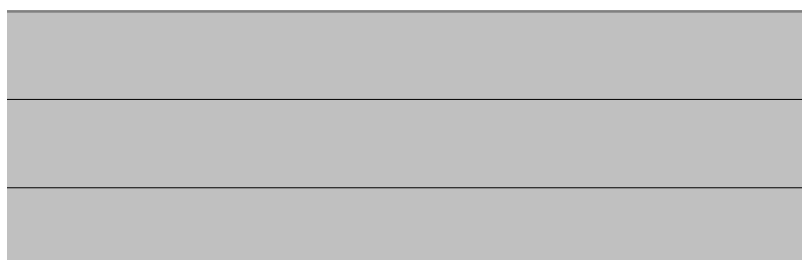
1 S 20% FBS  
2 Bez 20% FBS

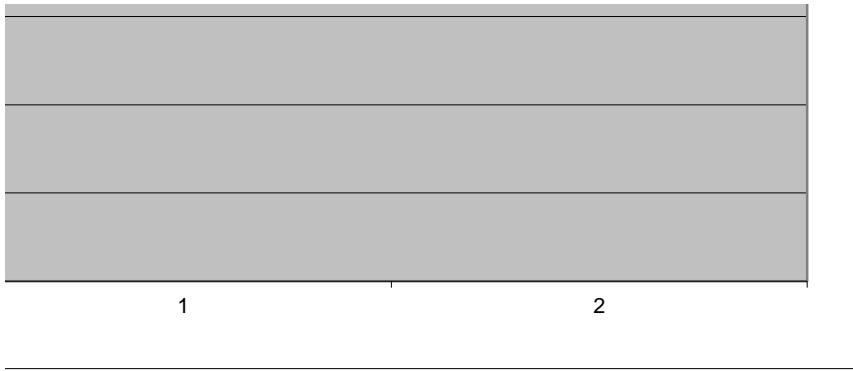
**Normalizovaná exprese genu 1 vůči GAPDH**



1 S 20% FBS  
2 Bez 20% FBS

**Normalizovaná exprese genu 2 vůči GAPDH**





1 S 20% FBS  
2 Bez 20% FBS