

Lab ID: LXXX

A. Purity and Quantity of RNA A and RNA B

A.1 Spectrophotometric data provided by your lab

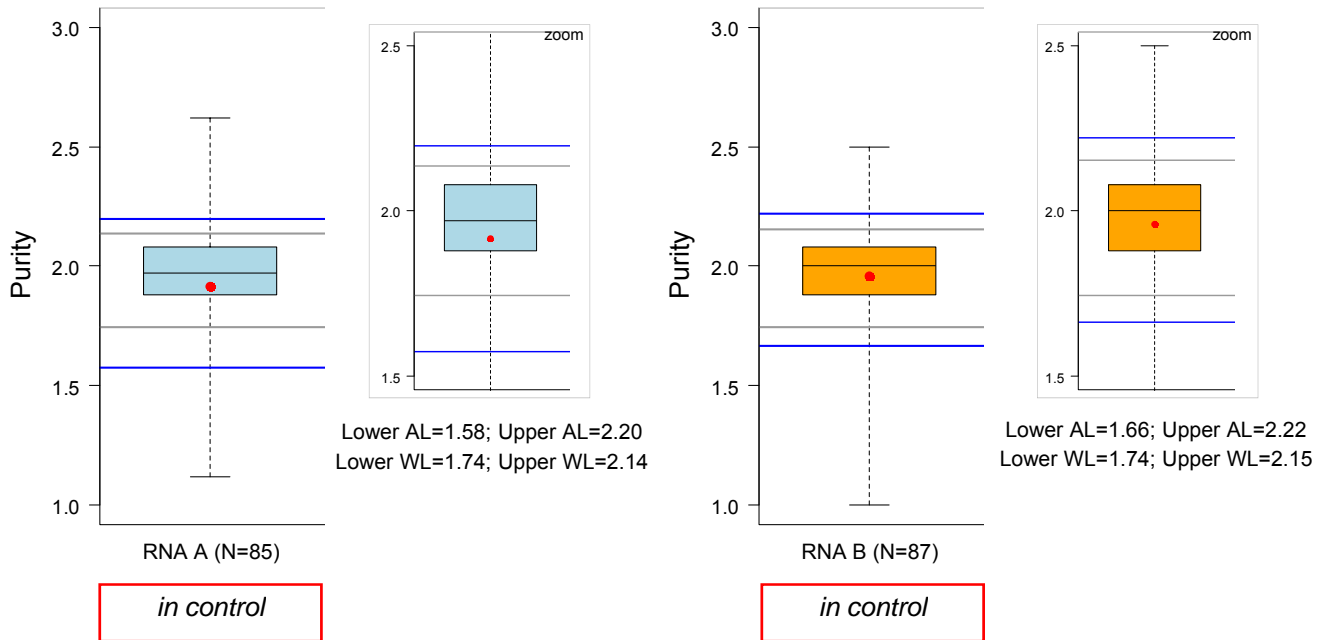
sample	260nm	280nm	320nm	Purity	Quantity (ng/μl blood)	Dilution factor	Extraction vol. (ul)	Elution vol. (ul)	Buffer
RNA A	2.853	1.489	.	1.916	1.826	1	2500	40	br5
RNA B	2.684	1.369	.	1.960	1.718	1	2500	40	br5

A.2 Additional information provided by your lab

sample	Time interval (hours)		Temperature of RNA storage		Extraction	Spectrophotometer	
	arrival to extraction	extraction to analysis	arrival to extraction	extraction to analysis		producer	supplier
RNA A	0.25 h	2.25 h	18°C	4°C	PAXgene	Nanodrop technologies	nd-1000 uv/vis
RNA B	24.25 h	2.00 h	4°C	4°C			

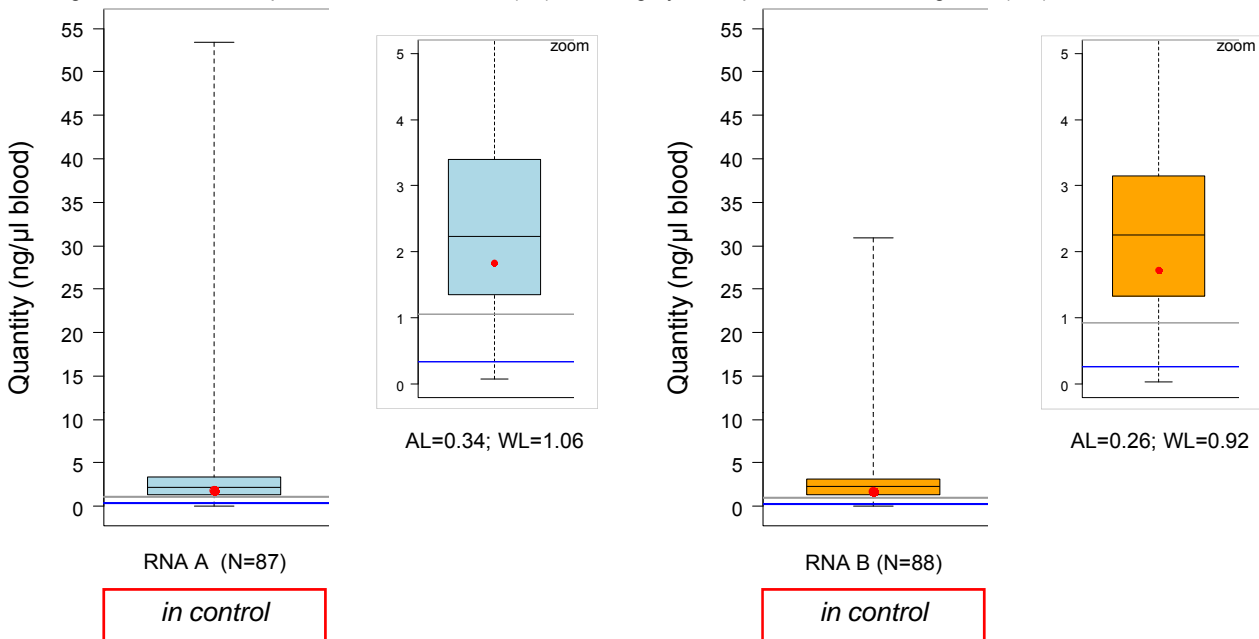
A.3 Your lab (●) versus overall distribution – Purity

In the figures the blue lines represent the Action Limits (ALs) and the gray lines represent the Warning Limits (WLs).



A.4 Your lab (●) versus overall distribution – Quantity

In the figures the blue line represents the Action Limit (AL) and the gray line represents the Warning Limit (WL).

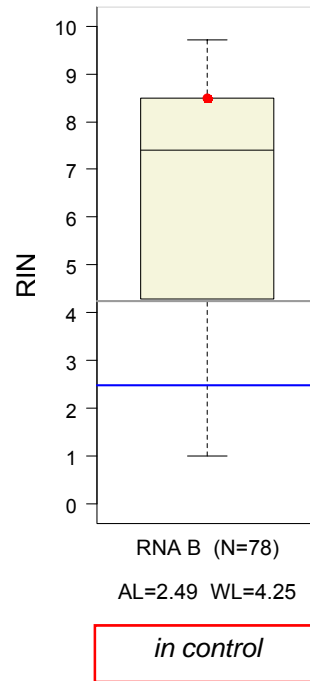
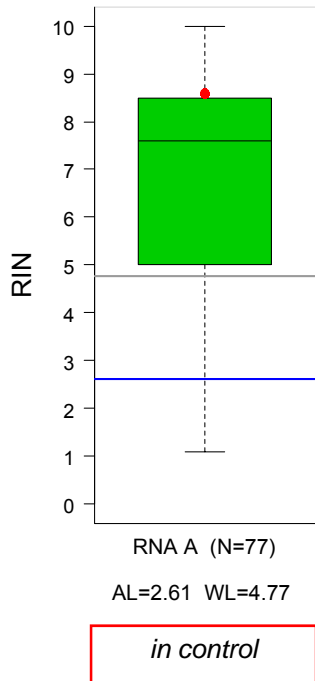


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B. Integrity of RNA A and RNA B

B.1 Your lab (●) versus overall distribution – RIN number

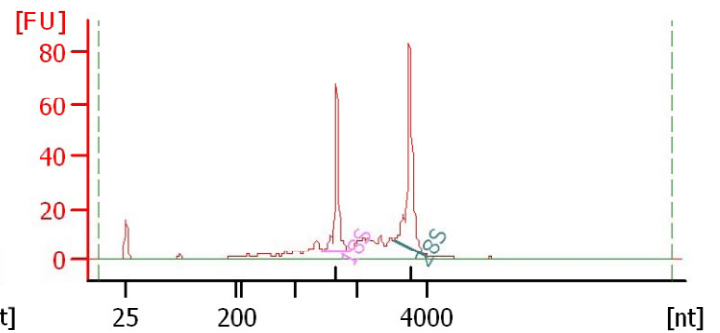
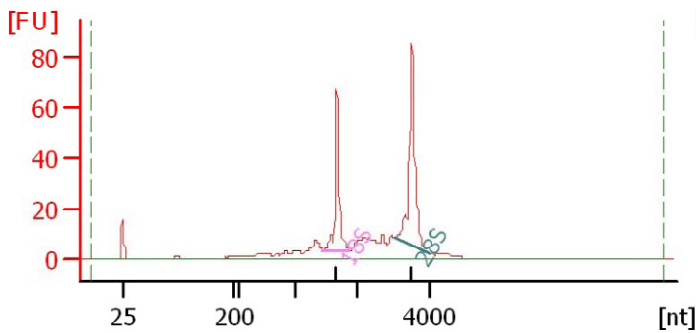
In the figures the blue line represents the Action Limit (AL) and the gray line represents the Warning Limit (WL).



B.2 Electropherogram Agilent

RNA A

RNA B

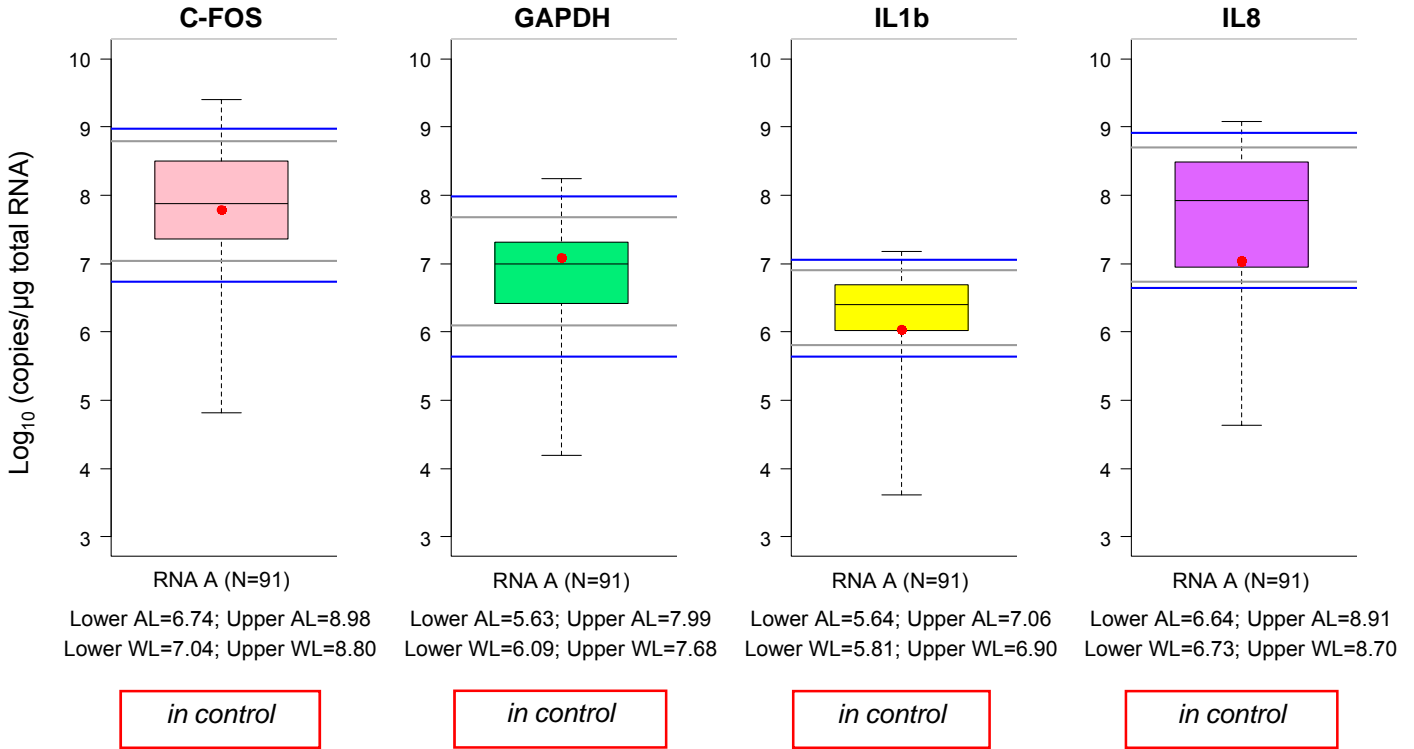


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C. Quantification of four genes by real-time PCR on RNA A and RNA B

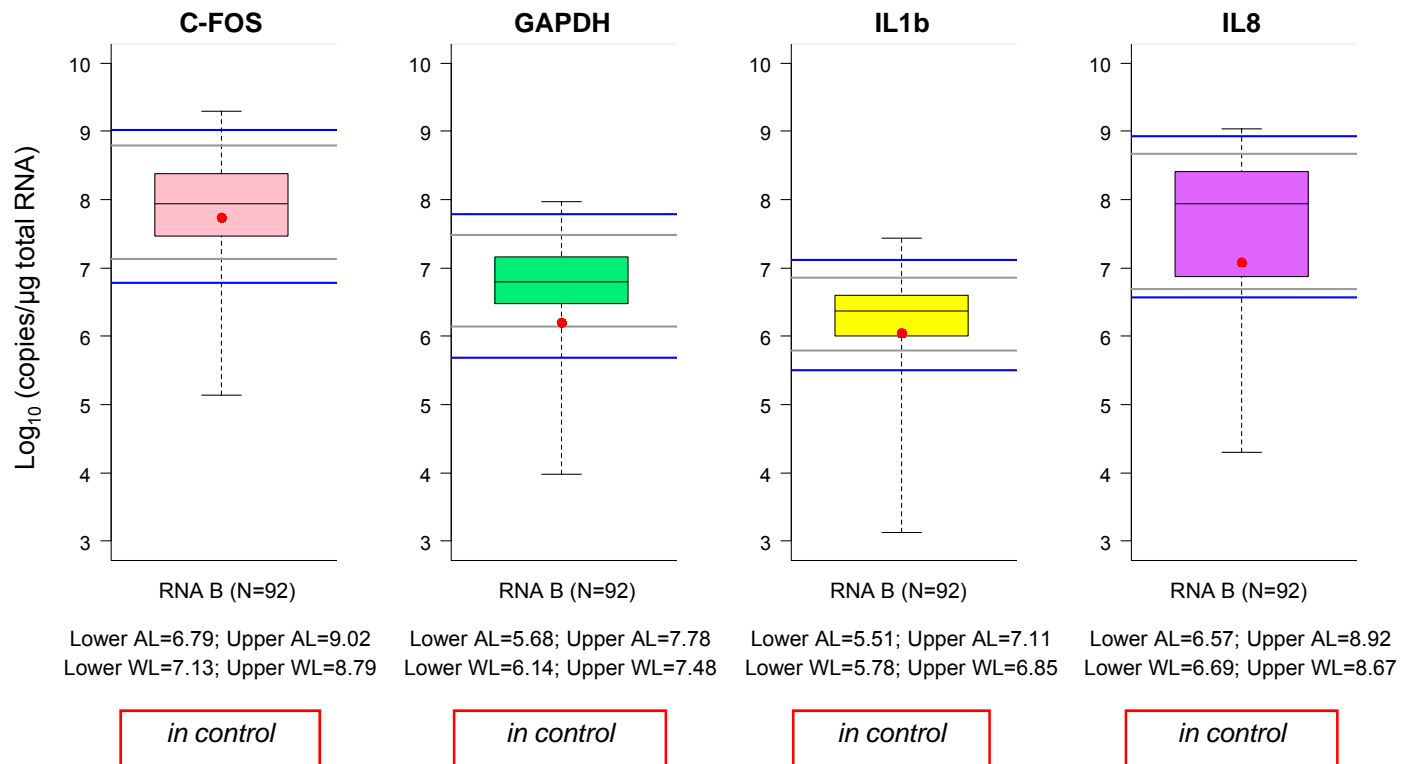
C.1 Your lab (●) versus overall distribution – RNA A

In the figures the blue lines represent the Action Limits (ALs) and the gray lines represent the Warning Limits (WLs).



C.2 Your lab (●) versus overall distribution – RNA B

In the figures the blue lines represent the Action Limits (ALs) and the gray lines represent the Warning Limits (WLs).

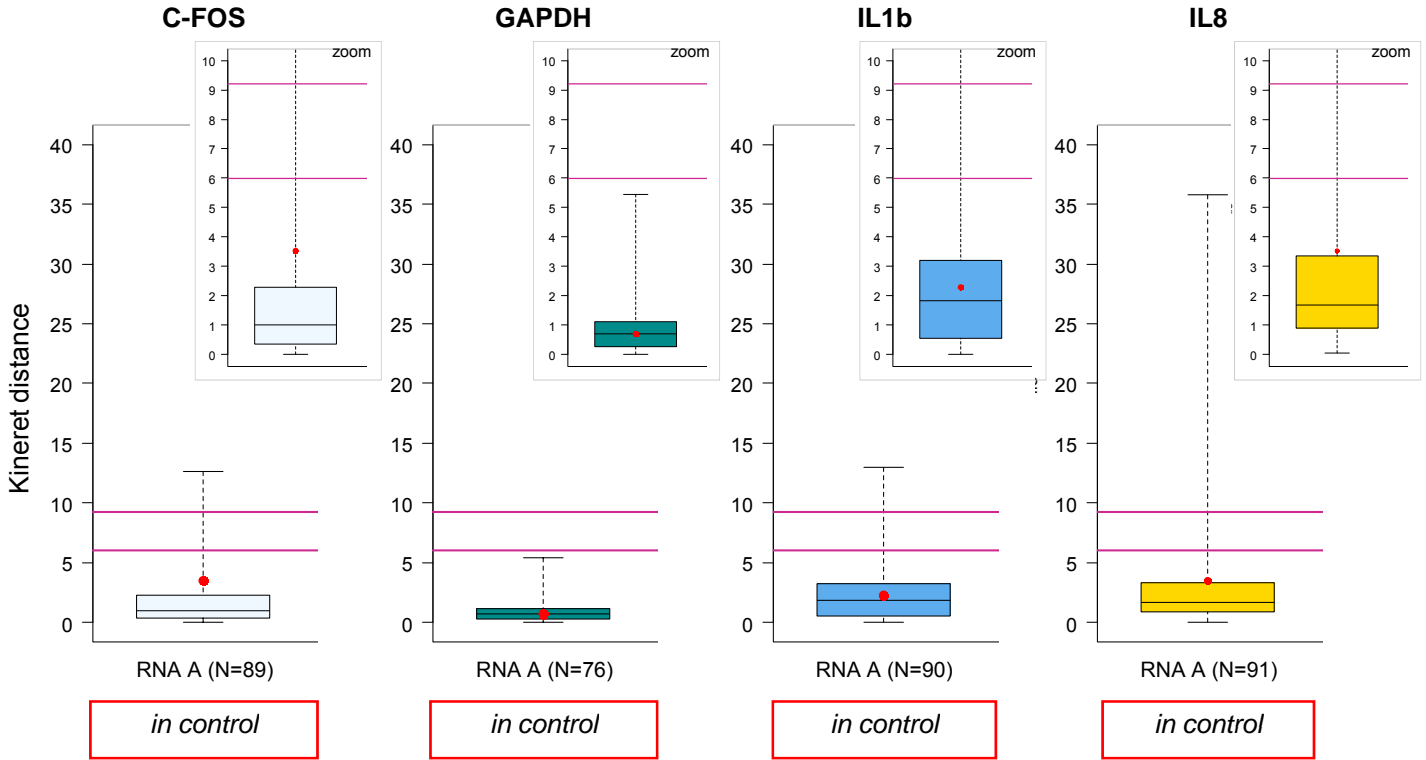


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D. Interferences in quantification of four genes by real-time PCR on RNA A and RNA B

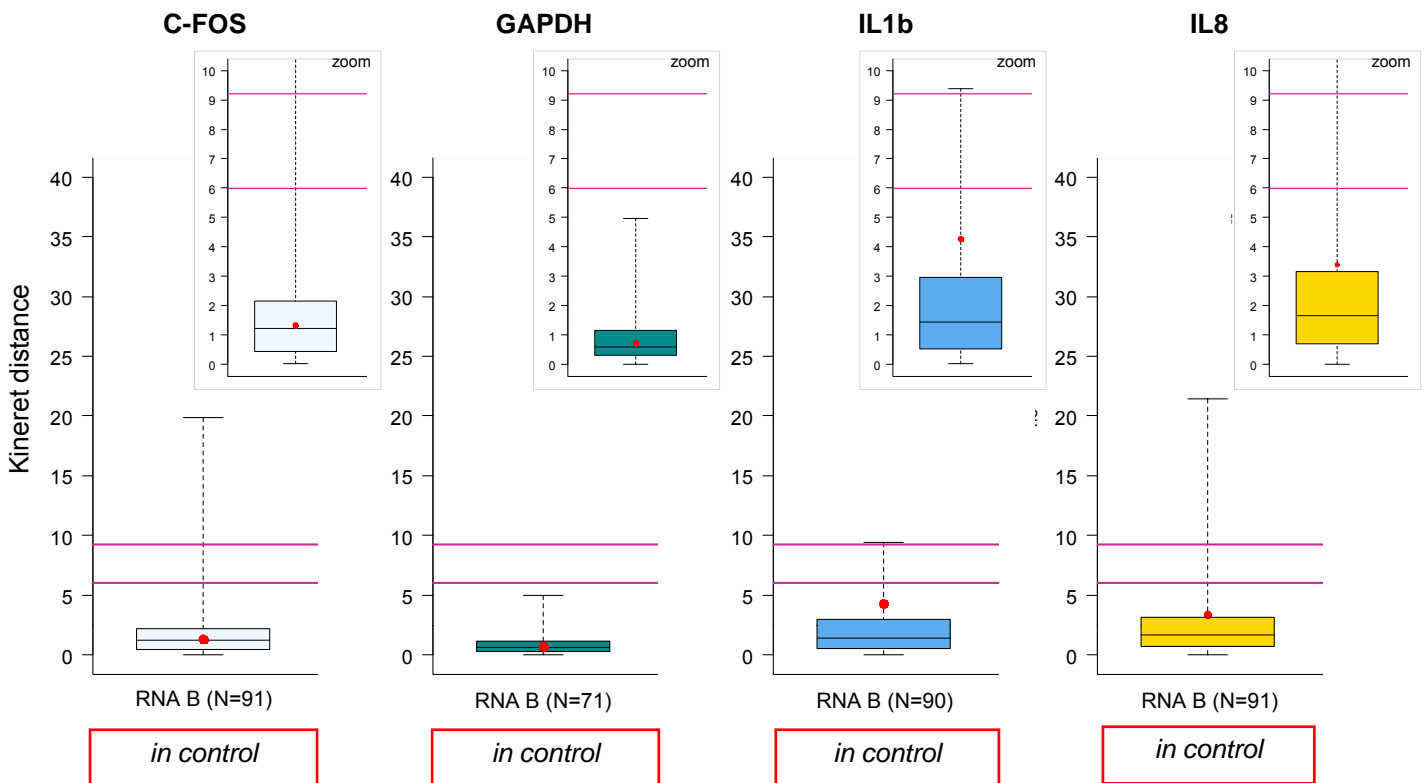
D.1 Your lab (●) versus overall distribution – RNA A

In the figures the two lines represent the two Kineret threshold for outliers identification: 5.99 (weak outlier) and 9.21 (strong outlier).



D.2 Your lab (●) versus overall distribution – RNA B

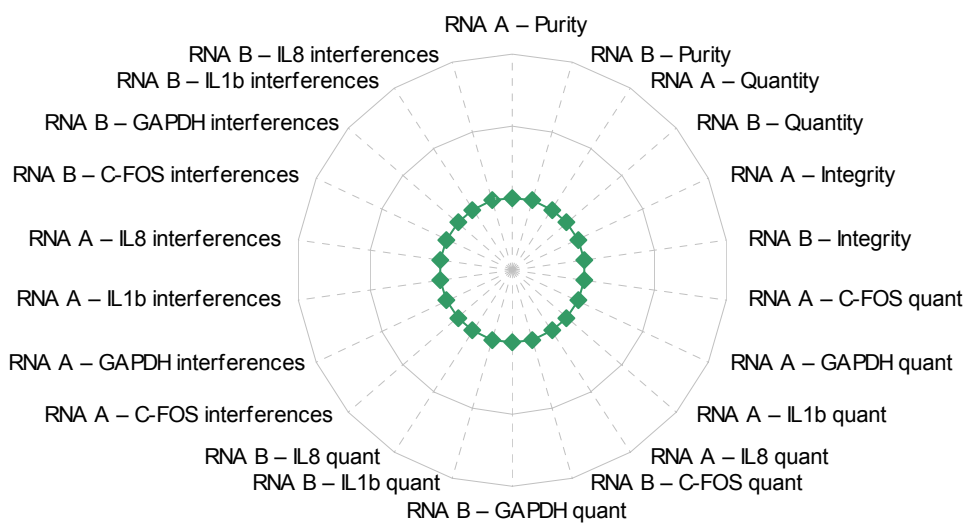
In the figures the two lines represent the two Kineret threshold for outliers identification: 5.99 (weak outlier) and 9.21 (strong outlier).



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E. Summary

	Performance	Missing	Comments
RNA A – Purity	in control		
RNA B – Purity	in control		
RNA A – Quantity	in control		
RNA B – Quantity	in control		
RNA A – Integrity	in control		
RNA B – Integrity	in control		
RNA A – C-FOS quant	in control		
RNA A – GAPDH quant	in control		
RNA A – IL1b quant	in control		
RNA A – IL8 quant	in control		
RNA B – C-FOS quant	in control		
RNA B – GAPDH quant	in control		
RNA B – IL1b quant	in control		
RNA B – IL8 quant	in control		
RNA A – C-FOS interferences	in control		
RNA A – GAPDH interferences	in control		
RNA A – IL1b interferences	in control		
RNA A – IL8 interferences	in control		
RNA B – C-FOS interferences	in control		
RNA B – GAPDH interferences	in control		
RNA B – IL1b interferences	in control		
RNA B – IL8 interferences	in control		



This report has been produced with the collaboration of the **University of Florence** (M.Pazzagli, S.Gelmini, C.Orlando, L.Simi, F.Malentacchi), **Fondazione IRCCS Istituto Nazionale dei Tumori of Milan** (P.Verderio, S.Pizzamiglio, C.Ciniselli) and **TATAA BIOCENTER** (A.Tichopad).