

F.A.Q., Tips and Troubleshooting

When viewing the results of a FISH essay, ensure that the microscope is properly aligned and functioning optimally. The following table lists some less than optimal results that may be encountered using our products. Probable causes and suggestions to improve assay performance are included.

Q: How can I storage Rapid-ISH or Smart-ISH products?

A: The optimal storage temperature range between RT and -20°C; if it is possible it is recommended to store at +4°C in the original vial

Q: Do I have to change probe firmly to use Rapid-ISH or Smart-ISH products?

A: No, all the products are compatible with the most common probes already used in the daily lab practice.

Q: Do I have to change my pre-treatment reagents and protocols to use Rapid-ISH or Smart-ISH products?

A: You can maintain your already used protocol and reagents both for Smart-ISH Solve, both for Rapid-ISH Integra.

For a better efficiency with Rapid-ISH Integra you can refer to the protocols reported in the Rapid- ISH datasheet or on www.oncology-and-cytogenetic-products.com/eng/tutorial.html.

Q: Which are the most appropriate denaturation time and temperature?

A: The usage of Rapid-ISH and Smart-ISH does not affect the probes denaturation parameters; refer to probes datasheet.

Q: Which are the most appropriate hybridization time and temperature?

A: The usage of **Smart-ISH Solve** does not affect probes hybridization parameters; refer to probes datasheet.

A2: The usage of **Rapid-ISH Integra** products does not affect the hybridization temperature (refer to probes datasheet), and allow to **reduce the hybridization time to 40 minutes.**

LIMITATIONS OF THE PROCEDURE

For the procedure limitations refer to probes datasheet.

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Problem	Probable Cause	Possible Solution
No signal or weak signals	Inappropriate filter set	Use recommended filters.
	used	
	Inappropriate	
	hybridization	Verify hybridization time
	time	
	Inappropriate post-	
	hybridization wash	Verify temperature
	temperature	
	Air bubbles trapped under	Apply coveralin by first touching the
	coverslip prevented probe access	Apply coversity by first couching the
		sufface of the probe mixture.
		Verify temperature of the digestion
	Inadequate tissue digestion	solution
		Verify time of the digestion step.
	Section over fixed (cell boundaries will be distinct)	Prolonged tissue fixation times may lead
		intensity
		and may require longer digestion times
	Too low probe volume	Repeat the test using a little bit more
	used	probe
	vs sample dimension	volume
	Probes not well preserved	Change the probe vials
		Repeat assay on next adjacent section of
Variation of signal	Probe unevenly	same tissue block and make sure no air
intensity across	distributed on slide due to	bubbles are trapped under coverslip
tissue section	air bubbles under	Apply coverslip by first touching the
	coversnp	surface
	Ticque costion under fixed	of the probe mixture.
Tissue loss or tissue morphology degraded	(poor DAPI staining)	Verify tissue digestion time
	DNA loss (poor	Verify fixation conditions
	DAPI	Verify Rapid-ISH Hybridization time
	staining)	
	Inappropriate slides	Use positively-charged slides
	Over pretreatment	Verify time and temperature
Problem	Probable Cause	Possible Solution
_	Tissue section was torn	Allow additional time for coverslip to
Tissue loss or	when removing	soak off in wash buffer
tissue morphology	coverslip	
uegraded	Improper slide baking	Varify tamperatura
	Over denaturation	Verify denaturation time
		verny denaturation unite

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FAST LABORATORY DIAGNOSTICS

