Reporting Reference Ranges for Cystic Fibrosis (CF)

"<" means "is less than"
"≤" means "is less than or equal to"
">" means "is greater than"
"≥" means "is greater than or equal to"

IRT (ng/mL) ranges for CF are age dependent:

Age at collection: ≤ 7 days

IRT Result	Expected Range	Action by the Missouri State Public Health Laboratory	Follow up required by primary care physician
< 55	< 55	**Normal Result**	No further action required.
55 - 59	< 55	**Borderline Result** – Report mailed to the primary care physician requesting repeat newborn screen.	Repeat NBS sample at ≥ 7 days of age.
≥ 60	< 55	**Abnormal Result** - CF mutation testing performed. 1 or 2 CFTR mutations detected in the 39 mutation panel. Results are phoned and faxed to the primary care physician.	Diagnostic testing required at CF follow up center.
≥ 60	< 55	**Abnormal Result** - CF mutation testing performed. No CFTR mutations detected in the 39 mutation panel	IRT slightly elevated. CF is not likely. No further evaluation necessary unless clinically indicated.

Age at collection: > 7 days

IRT Result	Expected Range	Action by the Missouri State Public Health Laboratory	Follow up required by primary care physician
< 50	< 50	**Normal result**	No further action required
≥ 50	< 50	**Abnormal Result** - CF mutation testing performed. 1 or 2 CFTR mutations detected in the 39 mutation panel. Results are phoned and faxed to the primary care physician	Diagnostic testing required at CF follow up center
≥ 50	< 50	**Abnormal Result** - CF mutation testing performed. No CFTR mutations detected in the 39 mutation panel	IRT slightly elevated. CF is not likely. No further evaluation necessary unless clinically indicated.