

ASTRA Report mexR_protein

**File Properties****Name:** mexR_protein.afe7**Directory:** C:\Users\jeffries\Desktop\p31-mariasunner_23112020_MALLS**Computer:** SAXS-LAPTOP-W**Sample:** mariasunner_MexR_protein_only**Configuration****Concentration Source:** RI**Flow Rate:** 0.300 mL/min**Light Scattering Instrument:** TREOS**Temperature Control:** no**Cell Type:** Fused Silica**Wavelength:** 659.0 nm**Calibration Constant:** 4.9041×10^{-5} 1/(V cm)**RI Instrument:** rEX**UV Instrument:** UV**QELS:****Use QELS Temperature Probe:** yes**Model:** Wyatt QELS+**Solvent:** 20mM HEPES pH 7.1 150mM NaCl 10mM DTT 1pc glycerol**Refractive Index:** 1.331**Viscosity:** 0.890 cP**Processing****Collection Time:** Monday, November 23, 2020 15:23:27 PM**Processing Time:** Tuesday, January 12, 2021 15:20:39 PM**Peak settings:**

Peak Name	Peak 1
Light Scattering Model	Zimm
Fit Degree	1
dn/dc (mL/g)	0.1864
A2 (mol mL/g²)	0.000

Results**Peak Results**

	Peak 1
Hydrodynamic radius (Q) moments (nm)	
rh(Q)(avg)	2.887 (±1.172%)

Peak 1	
Masses	
Calculated Mass	
(μg)	20.47
Mass Recovery (%)	12.8
Mass Fraction (%)	100.0
Molar mass moments (g/mol)	
	3.549×10^4
Mn	($\pm 3.713\%$)
	3.551×10^4
Mp	($\pm 3.459\%$)
	3.553×10^4
Mw	($\pm 3.726\%$)
	3.558×10^4
Mz	($\pm 8.344\%$)
	3.535×10^4
M(avg)	($\pm 0.626\%$)
Polydispersity	
Mw/Mn	1.001 ($\pm 5.260\%$)
Mz/Mn	1.002 ($\pm 9.133\%$)