

# PrimEx-eta (E12-10-011) Running References

Aug. 29, 2018

<b>Electron current</b>	<b>100 nA</b>
Radiator	$3 \times 10^{-4}$ R.L. Al
Collimator	5 mm
Collimator acceptance	0.27
Photon flux on target (E: 10.5-11.7 GeV)	$5.4 \times 10^6$ $\gamma$ /s
GlueX magnet	off
LH <sub>2</sub> target (30cm)	$1.28 \times 10^{24}$ p/cm <sup>2</sup> , $1.28 \times 10^{24}$ e/cm <sup>2</sup>
LHe target (30cm)	$5.64 \times 10^{23}$ He/cm <sup>2</sup> , $1.13 \times 10^{24}$ e/cm <sup>2</sup>
<sup>9</sup> Be calibration target (5% R.L.)	$2.18 \times 10^{23}$ Be/cm <sup>2</sup> , $8.72 \times 10^{23}$ e/cm <sup>2</sup>
Production rate on LH2	183 $\eta$ /day (Primakoff), $3.7 \times 10^6$ Compton/day
Production rate on LHe	247 $\eta$ /day (Primakoff), $3.3 \times 10^6$ Compton/day
Production rate on Be	$2.5 \times 10^6$ Compton/day