

EXP#16D05208 > 291-DFWJ-14 > Plagioclase > MCCLAUGHRY (15-17)
EAST EUROPE > DUFUR
15-OSU-06 (6B32-15) > Incremental Heating > Dan Miggins

**Information on Analysis
and Constants Used in Calculations**

Project = **MCCLAUGHRY (15-17)**
Sample = **291-DFWJ-14**
Material = **Plagioclase**
Location = **Dufur**
Region = **East Europe**
Analyst = **Dan Miggins**
Irradiation = **15-OSU-06 (6B32-15)**
Position = **X: 0 | Y: 0 | Z/H: 42.31 mm**
FCT-NM Age = **28.201 ± 0.023 Ma**
FCT-NM Reference = **Kuiper et al (2008)**
FCT-NM 40Ar/39Ar Ratio = **9.19150 ± 0.01250**
FCT-NM J-value = **0.00170999 ± 0.00000233**
Air Shot 40Ar/36Ar = **303.8400 ± 0.4497**
Air Shot MDF = **0.99312897 ± 0.00068024 (LIN)**
Experiment Type = **Incremental Heating**
Extraction Method = **Undefined**
Heating = **77 sec**
Isolation = **3.00 min**
Instrument = **ARGUS-VI-D**
Preferred Age = **Undefined**
Age Classification = **Undefined**
IGSN = **8.8**
Rock Class = **Undefined**
Lithology = **Undefined**
Lat-Lon = **Undefined - Undefined**
Age Equations = **Min et al. (2000)**
Negative Intensities = **Allowed**
Collector Calibrations = **36Ar**
Decay 40K = **5.530 ± 0.048 E-10 1/a**
Decay 39Ar = **2.940 ± 0.016 E-07 1/h**
Decay 37Ar = **8.230 ± 0.012 E-04 1/h**
Decay 36Cl = **2.257 ± 0.015 E-06 1/a**
Decay 40K(EC,β⁺) = **0.580 ± 0.009 E-10 1/a**
Decay 40K(β⁻) = **4.950 ± 0.043 E-10 1/a**
Atmospheric 40/36(a) = **295.50**
Atmospheric 38/36(a) = **0.1869**
Production 39/37(ca) = **0.0006756 ± 0.0000089**
Production 38/37(ca) = **0.0000718 ± 0.0000092**
Production 36/37(ca) = **0.0002663 ± 0.0000004**
Production 40/39(k) = **0.003823 ± 0.000102**
Production 38/39(k) = **0.012031 ± 0.000019**
Production 36/38(cl) = **262.80 ± 1.71**
Scaling Ratio K/Ca = **0.430**
Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		2.56221 ± 0.02665 ± 1.04%	7.91 ± 0.08 ± 1.07%	0.44 98%	45.05 18	0.0252 ± 0.0040
		Full External Error ± 0.20 Analytical Error ± 0.08		1.69 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		2.79803 ± 0.01812 ± 0.65%	8.63 ± 0.06 ± 0.70%		34	0.0245 ± 0.0001
		Full External Error ± 0.20 Analytical Error ± 0.06				
Normal Isochron	298.33 ± 18.22 ± 6.11%	2.54530 ± 0.10280 ± 4.04%	7.85 ± 0.32 ± 4.04%	0.46 97%	45.05 18	
		Full External Error ± 0.36 Analytical Error ± 0.32		1.71 1.0000	2σ Confidence Limit Error Magnification	
Inverse Isochron	297.65 ± 18.20 ± 6.11%	2.55099 ± 0.10225 ± 4.01%	7.87 ± 0.32 ± 4.01%	0.46 97%	45.05 18	
		Full External Error ± 0.36 Analytical Error ± 0.31		1.71 1.0000	2σ Confidence Limit Error Magnification	
				19%	Spreading Factor	

