

# Rat Premixed Methylation Calibration Standards



## Product Highlights

- ▶ Premixed levels of Rat High and Low methylation control DNA can be used to quantify the methylation levels of unknown samples or to validate quantitative methylation assays
- ▶ Ideal for use as controls in bisulfite methylation analysis procedures including Pyrosequencing, NGS, and MS-HRM

## Product Contents

- ▶ 1 vial 0% Rat Methylated Genomic DNA (1 µg at 50 ng/µL)
- ▶ 1 vial 5% Rat Methylated Genomic DNA (1 µg at 50 ng/µL)
- ▶ 1 vial 10% Rat Methylated Genomic DNA (1 µg at 50 ng/µL)
- ▶ 1 vial 25% Rat Methylated Genomic DNA (1 µg at 50 ng/µL)
- ▶ 1 vial 50% Rat Methylated Genomic DNA (1 µg at 50 ng/µL)
- ▶ 1 vial 75% Rat Methylated Genomic DNA (1 µg at 50 ng/µL)
- ▶ 1 vial 100% Rat Methylated Genomic DNA (1 µg at 50 ng/µL)

## Ordering Information

CATALOG NUMBER	PRODUCT	PRICE
80-8060R-PREMIX	Rat Premixed Calibration Standard (1 µg per vial, 20 µL volume)	\$353.96

## Related Products

CATALOG NUMBER	PRODUCT	PRICE
80-8061-HGHM5	Human high methylated genomic DNA (5 µg at 100 ng/ µL)	\$219.99
80-8063-MGHM5	Mouse high methylated genomic DNA (5 µg at 100 ng/ µL)	\$229.99
80-8065-RGHM5	Rat high methylated genomic DNA (5 µg at 100 ng/ µL)	\$229.99
80-8067-PMGHM5	Monkey ( <i>Macaca mulatta</i> ) high methylated genomic DNA (5 µg at 100 ng/ µL)	\$250.00
80-8062-HGUM5	Human low methylated genomic DNA (5 µg at 100 ng/ µL)	\$219.99
80-8064-MGUM5	Mouse low methylated genomic DNA (5 µg at 100 ng/ µL)	\$229.99
80-8066-RGUM5	Rat low methylated genomic DNA (5 µg at 100 ng/ µL)	\$229.99
80-8068-PMGUM5	Monkey ( <i>Macaca mulatta</i> ) low methylated genomic DNA (5 µg at 100 ng/ µL)	\$250.00
80-8060H-PREMIX	Human Premixed Calibration Standard (1 µg per vial, 20 µL volume)	\$359.96
80-8060M-PREMIX	Mouse Premixed Calibration Standard (1 µg per vial, 20 µL volume)	\$359.96
80-8060PM-PREMIX	Monkey ( <i>Macaca mulatta</i> ) Premixed Calibration Standard (1 µg per vial, 20 µL volume)	\$359.96

Place your order via our website,  
through email, or over the phone.

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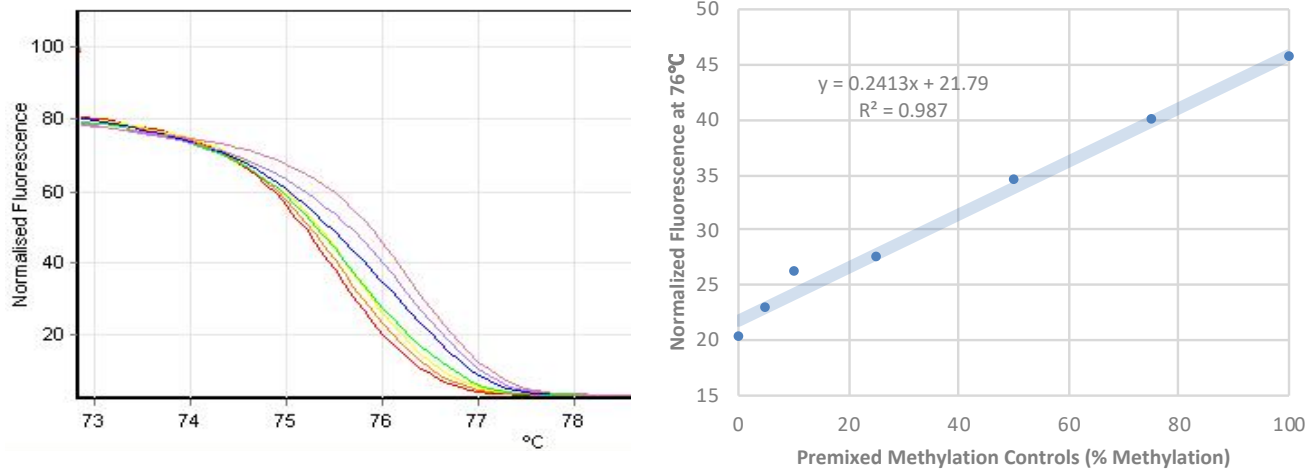
Website: <https://epigenDx.com/>

## Technical Specifications

- ▶ 5µg DNA in TE buffer (10mM Tris-HCl, 1mM EDTA, pH 8.0)
- ▶ Store at -20°C, in aliquots, for 2 years. For best results, do not freeze/thaw an individual aliquot more than three times. For longer term storage -70°C is recommended.
- ▶ Requires bisulfite conversion prior to use.

## Example Quality Control Results

Figure: High Resolution Melt (HRM) Analysis Results



Premixed Control DNA is used to calibrate the HRM analysis assay, which measures the percent methylation of a bisulfite-converted DNA amplicon.

(Left) Example HRM Melting Curve. The amount of DNA that has melted into single-stranded molecules is measured by the fluorescence of the sample after it is mixed with a DNA-intercalating dye. When a double-stranded DNA molecule melts into single-stranded DNA molecules, the dye loses its fluorescence.

(Right) Example HRM Standard Curve. The fluorescence at a certain temperature can be used to differentiate between different levels of methylation. Lower levels of methylation correspond to greater numbers of cytosine to uracil conversions due to bisulfite treatment and, consequently, lower melting temperatures.