

**METANEPHRINES, RANDOM
URINE
(HPLC)**

Metanephrines
Normetanephrines

µg/g creatinine
µg/g creatinine

ANALYTE	AGE IN YEARS	REFERENCE RANGE IN µg/g creatinine
Metanephrine	0-5	Not established
	>5-10	106-527
	>10-14	34-357
	>14-17	24-302
	Males >17 Females >17	20-150 30-165
Normetanephrine	0-5	Not established
	>5-10	149-781
	>10-14	38-523
	>14-17	14-302
	Males >17 Females >17	70-335 105-375

Comment

Metanephrines and Normetanephrines collectively called Metanephrines are metabolites of Epinephrine and Norepinephrine respectively. They are elevated in catecholamine secreting tumors like Pheochromocytomas and in tumors derived from neural crest cells like Paraganglioma and Neuroblastoma.

Uses

As a screening test for the presumptive diagnosis of catecholamine secreting Pheochromocytomas and Paragangliomas.