

<h2>Arylsulphatase</h2>	
<b>Description</b>	Arylsulphatase A and arylsulphatase B are measured in the investigation of suspected lysosomal storage diseases.
<b>Indication</b>	<u>Arylsulphatase A</u> : screening for suspected metachromatic leukodystrophy as part of lysosomal enzyme screen (does not include screening for mucopolysaccharidosis). <u>Arylsulphatase B</u> : confirmation of suspected mucopolysaccharidosis type VI following positive urine glycosaminoglycan analysis.
<b>Additional Info</b>	<u>Arylsulphatase A</u> (sulphatidase) deficiency causes metachromatic leukodystrophy, a sphingolipidosis, which can presents at any age with spasticity, neuropathy and psychomotor regression (loss of ability to walk). <u>Arylsulphatase B</u> (N-acetylgalactosamine-4-sulphatase) deficiency causes mucopolysaccharidosis type VI (Maroteaux-Lamy), which presents from the age of 2 upwards with skeletal deformities. The screening test for mucopolysaccharidosis is urine glycosaminoglycans.
<b>Concurrent Tests</b>	<u>Metachromatic leukodystrophy</u> : urine sulphatides <u>Mucopolysaccharidosis type VI</u> : urine glycosaminoglycans
<b>Dietary Requirements</b>	<u>Arylsulphatase A</u> : N/A <u>Arylsulphatase B</u> : N/A
<b>Interpretation</b>	<u>Arylsulphatase A</u> : Decreased in metachromatic leukodystrophy, multiple sulphatase deficiency and sulphatide activator (saposin) deficiency. Must exclude pseudo-deficiency (decreased amount of enzyme protein). <u>Arylsulphatase B</u> : Decreased in mucopolysaccharidosis type VI (Maroteaux-Lamy).
<b>Collection Conditions</b>	<u>Arylsulphatase A</u> : Avoid sending to laboratory on Friday as must reach SAS referral laboratory within 72 hours. All relevant clinical information should be provided with the sample. <u>Arylsulphatase B</u> : Check with laboratory
<b>Frequency of testing</b>	Repeated measurement inappropriate.