

Sulfazyme™ DS



Recombinant arylsulfatase variant (2 mg/mL) designed for DHEAS hydrolysis

Specifications and Guidelines

Recommended reaction set up for DHEA sulfate hydrolysis:

(Consult table for recommended volumes)

- Add MilliQ water to urine samples.
- Add 1 M Tris-HCl, pH 8.0 Buffer.
- Add internal standard or additional MilliQ water.
- Add Sulfazyme™ DS and mix gently.
- **DO NOT VORTEX.**
- Incubate at 37 °C for 4 hours.

Hydrolysis Reaction Conditions	No Enzyme (Unhydrolyzed urine blank) (µL)	Sulfazyme™ only (PaS, DS or β-AS) (µL)	B. pi β-GUS only (µL)	Sulfazyme™ (PaS, DS or β-AS) and B. pi β-GUS (µL)
Urine	200	200	200	200
Buffer (1.0 M Tris-HCl, pH 8.0)	30	30	30	30
Internal standard (or use MilliQ water)	20	20	20	20
MilliQ water	180	160	160	140
Sulfazyme™ (PaS, DS or β-AS)	0	20	0	20
Glucuronidase (B. pi β-glucuronidase variant)	0	0	20	20
Total Volume (µL)	430	430	430	430

Note: Some steroids are sensitive to diluent and mobile phase conditions. Estradiol exhibits ion suppression in the presence of formic acid.

Content and Storage Guidelines:

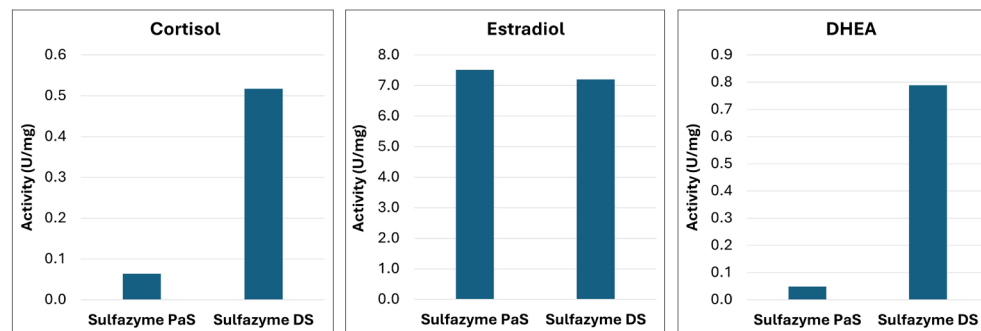
Enzyme Solution:

The enzyme solution is stable at 2-8 °C. Refer to the Certificate of Analysis for the specific lot expiry. The enzyme is supplied in a proprietary formulation designed to ensure long-term stability under recommended storage conditions. **Dilution may reduce shelf-life and is not recommended.** Freezing is not recommended; however, if unavoidable, product should not be subjected to more than three freeze-thaw cycles.

Product Sterility:

IMCS products undergo strict quality control to ensure product sterility. The product can become contaminated if mishandled. Follow aseptic techniques to avoid contamination.

Comparison Data:



Activity:

	Activity (U/mg)					
	Estradiol	Tapentadol	Cortisol	Boldenone	DHEA	Testosterone
Sulfazyme PaS	7.52	4.60	0.06	0.00	0.05	0.00
Sulfazyme DS	7.20	0.16	0.52	0.04	0.79	0.21

Contact and Support:

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Certificate of Analysis and Safety Data Sheets are available under “resources” at www.imcstips.com.

Product Warranty & Satisfaction Guarantee

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