

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.

Small Volume Hydrolysis Reaction Conditions	No Enzyme (unhydrolyzed urine blank) (µL)	Sulfazyme™ (PaS, DS, or β-AS) only (µL)	B. pi β-GUS only (µL)	Sulfazyme™ (PaS, DS, or β-AS) and B. pi β-GUS (µL)
Urine	200	200	200	200
Sulfazyme™ Buffer (1.0 M Tris-HCl pH 8)	30	30	30	30
Internal Standard (ISTD, or use MilliQ water)	20	20	20	20
MilliQ Water	180	160	160	140
Sulfazyme™ (PaS, DS, or β-AS)	0	20	0	20
β-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:

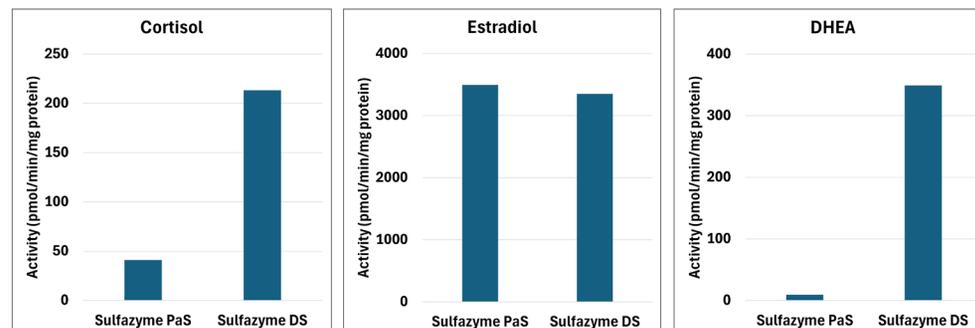
Enzyme Solution:

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 (pmol/min/mg protein)					
	Estradiol	Tapentadol	Cortisol	Boldenone	DHEA	Testosterone
Sulfazyme PaS	3496	2138	41	0	9	3
Sulfazyme DS	3351	75	213	20	349	103

Contact and Support:

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Business Hours: Monday-Friday from 9 a.m. - 5 p.m. EST.

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

Product Warranty & Satisfaction Guarantee

IMCS warrants that this product conforms to the information contained in this publication at the time of the quality test date. **For R&D use only. Not for drug, household, or other use.**

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