

Sulfazyme™ β -AS



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

Specifications and Guidelines

Recommended reaction set up for boldenone sulfate and testosterone 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™ β -AS and mix gently.
- **DO NOT VORTEX.**
- Incubate at 37 °C for 4 hours.

Hydrolysis Reaction Conditions	No Enzyme (Unhydrolyzed urine blank) (μ L)	Sulfazyme™ only (PaS, DS or β -AS) (μ L)	B. pi β -GUS only (μ L)	Sulfazyme™ (PaS, DS or β -AS) and B. pi β -GUS (μ L)
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 (μ L)	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:

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. If freezing is necessary, product should not be subjected to more than three freeze-thaw cycles.**

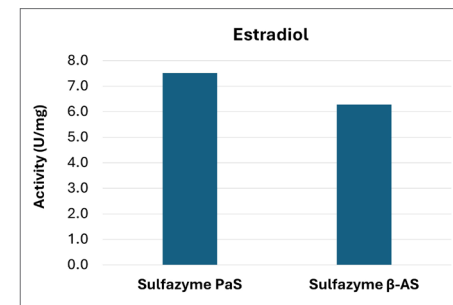
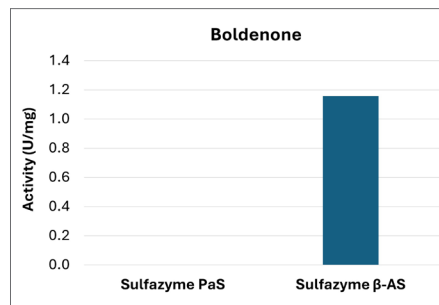
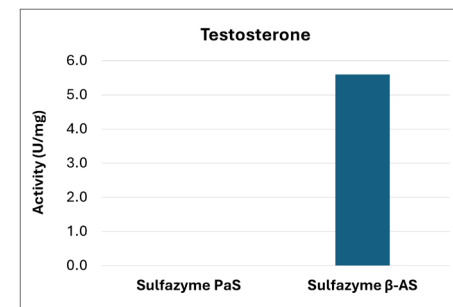
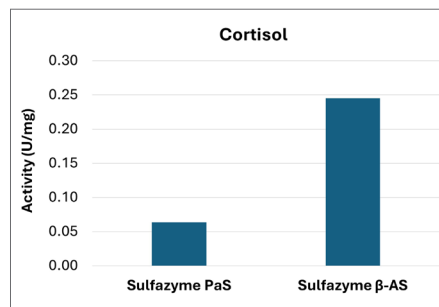
Product Sterility:

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

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 β -AS	6.28	2.91	0.25	1.16	0.12	5.60

Comparison Data:



Contact and Support:

For questions, concerns or technical support please contact us:

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Web: www.imcstips.com

Address: 110 Centrum Drive, Irmo, SC 29063 USA

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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