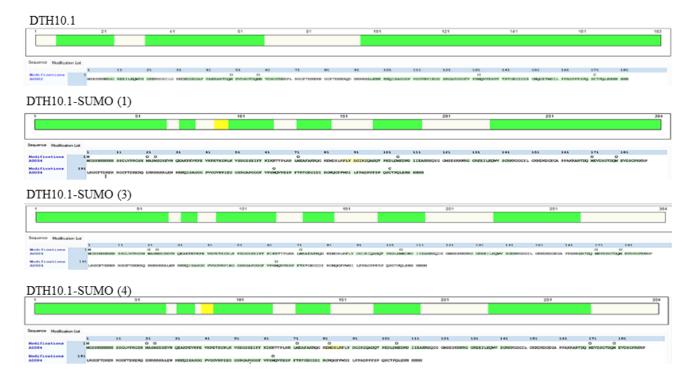


**Figure S1.** Mass spectra of proteins DTH10.1 and DTH10.1-SUMO. Samples 1, 3 and 4 of the DTH10.1-SUMO are the 3 protein bands observed between 25 kDa and 37 kDa.



**Figure S2.** Analysis of the bands obtained for DTH10.1 and DTH10.1-SUMO proteins compared to the amino acid sequence of the DTH10.1 protein. The regions in green indicate the level of coverage of each sample. The coverage of DTH10.1 was 76.5% and the bands observed for DTH10.1-SUMO (1,3 and 4) had 74%, 59.5% and 65.1% of coverage, respectively.

**Table S1.** Average absorbance values for positive and negative samples stored at 2-8°C and 37°C, during the accelerated stability test.

Samples	Storage	Day 0	Day 7	Day 14	<b>Day 21</b>	Day 28
Negative Samples	2-8°C	0,18	0,161	0,165	0,151	0,165
rvegative Samples	37 ℃		0,148	0,137	0,127	0,126
Docitivo Comples	2-8°C	1.00	1,696	1,685	1,637	1,710
Positive Samples	37 ℃	1,80	1,792	1,617	1,591	1,637

**Table S2.** Analytical sensitivity for detection of HBsAg of the Multiplex ICT test

<b>Concentrations of</b>	Multiplex ICT
NIBSC* Standard	HBsAg
10 UI/mL	+
9 UI/mL	+
8 UI/mL	+
7 UI/mL	S
6 UI/mL	S
5 UI/mL	S
4 UI/mL	-
3 UI/mL	-

\*NIBSC standard is a HBsAg standard (HBV genotype B4, NIBSC code number 12/226) from the National Institute for Biological Standard Control (NIBSC), recommended by the WHO for this purpose.

The plus sign indicates a positive result; the S is a very weak reactivity and the minus sign is a negative result.

Table S3. Cross-reactivity analysis with samples of viral and non-viral hepatitis.

Anti-HDV ICT	Multiplex ICT#	ELISA
0	4	0*
1	0	0
0	0	0
1	1	1
1	1	0
2	3	0
	0 1 0 1	0 4 1 0 0 0 1 1 1 1

The Anti-HDV IgG ICT was performed with 10  $\mu L$  of sera samples, the Multiplex ICT with 50  $\mu L$  and ELISA with 100  $\mu L$  of diluted samples.

<sup>\*</sup>The reactivities observed in the Multiplex ICT were only in the anti-HDV IgG test line.

<sup>\*</sup> One sample had an indeterminate index result and was not counted as a positive result.